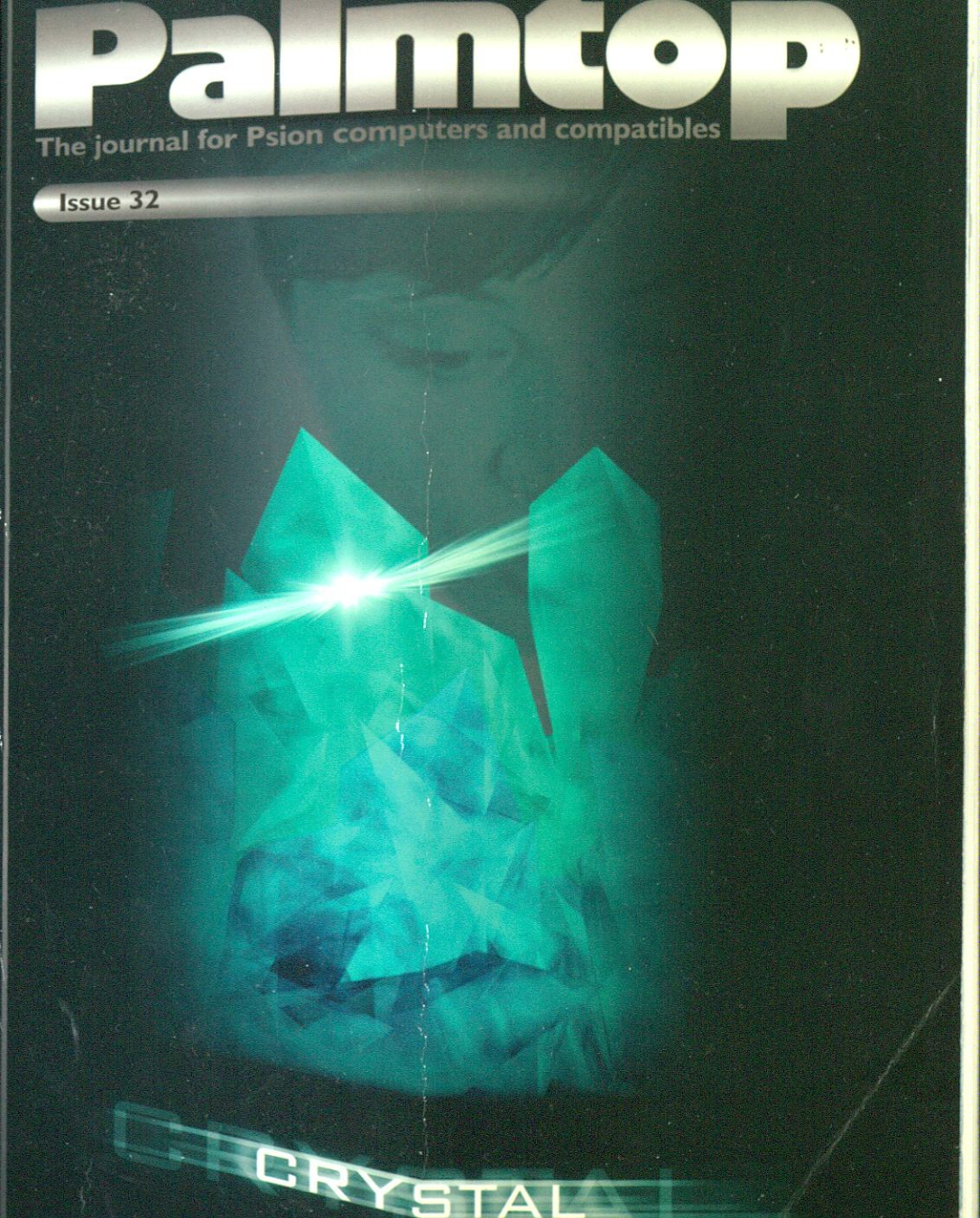
Palmtop

The journal for Psion computers and compatibles

Issue 32



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www.clove.co.uk

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Psion Series 7	£549

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Submissions

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EDITORIAL

Despite the continued expansion of the Symbian platform and quite healthy Psion sales, at least of the Revo, these are relatively quiet times for the Psion palmtop economy as a whole.

In the past 12 months or so we've seen the introduction of the Revo, Series 7, netBook and most recently, the more evolutionary Revo Plus. Apart from this reasonable (if not stellar) array of new hardware releases, things are particularly quiet on the software front, with very few commercial releases for several months now.

So what are all the EPOC developers up to? Whereas it's true that some of them are hedging their bets by going multi-platform with Palm organiser and Pocket PC offerings, others are simply hard at work porting their wares to the next generation of ER6 EPOC devices that are due to start surfacing in the first half of 2001.

The new EPOC generation will add hereto unheard of levels of power and sophistication to the familiar face of Psion computing. Although there will undoubtedly be functional differences between the offerings of the various Symbian licencees, it's fair to assume that the basic capabilities of each device will largely follow what's been shown in both the Crystal preview in this issue of Palmtop and the Quartz communicator preview that appeared in issue 29.

The most exciting news is that by the time the new palmtops become generally available, we can expect a fair amount of add-on software already waiting in the wings. With Symbian's wise decision to continue their inclusion of the easily-accessible OPL programming language in future ER6 devices, we can reasonably hope that much of the healthy volume of shareware development that has contributed so much to Psion's past success will continue unabated.

Steve Clack - December 2000

Palmtop is...

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Thanks... to all the other contributors whose names appear within *Palmtop* and those who have kindly supplied products for evaluation.

EPOC cartoons - Carl Reader

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NEWSREEL

What's new in the world of EPOC

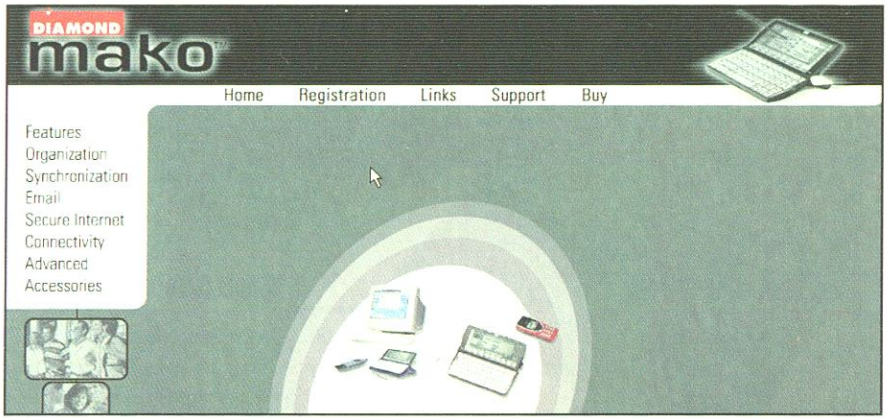
Nokia's 9210 leads the way

Nokia, one of the Symbian licensees, has announced the very first product to be based on the Crystal reference design, which reflects a convergence between mobile phone technology and the future of EPOC palmtops.

Looking when closed like a standard GSM cellular phone, the Nokia 9210 opens up to reveal a high resolution 4096-colour display and a keyboard-based palmtop running EPOC Release 6, in its Crystal guise (see 'The shape of things to come' on page 39 for a detailed preview of the operating system and applications).

The 9210 Communicator weighs 244g and measures 158 x 56 x 27mm. With a standard lithium-ion battery, it has "up to 10 hours" of talk time between recharges. Unlike the Ericsson R380 (reviewed in issue 31), the GSM phone functionality can be turned off to save power, using it solely as a palmtop. When online, the 9210 supports High Speed Circuit Switched Data (HSCSD) with data speeds of up to 43.2kbps.

A standard 16MB MMC memory card will be included to give extra storage space for data and third party applications. The new Communicator is also the world's first



SyncML-enabled product, easing synchronization with other PDAs and palmtops.

The 9210 is expected to be available "during the first half of 2001" and we'll be giving it the full review treatment as soon as production samples become available.

www.nokia.com

...and a camera, too!

Nokia is also to bundle Concord Camera's Eye-Q infrared digital camera with the 9210. It can take pictures at 640x480 resolution and store them in either its internal flash memory or on a removable MMC card, the latter providing an way to move pictures directly to the 9210.

www.nokia.com

Nokia 9210 Outside In

Nokia has also announced that their 9210 will feature licensed technology from IntraNet Solutions, makers of the 'Outside In' file viewers on desktop platforms. The inclusion of Nokia File Viewer gives 9210 owners the ability to view more than 75 desktop file formats, any of which can be received by email.

www.ie.intranetsolutions.com

Diamond Mako looks familiar

SONICblue, previously S3, the American consumer electronics company best known for its Rio MP3 music players, has launched a rebadged Psion Revo Plus under the name of Diamond Mako. This follows the partnership announced in issue 31's Newsreel. S3 will make the Mako available through a wide range of traditional and Internet retail outlets based in the USA. This move should significantly strengthen Symbian and EPOC's foothold in the US, in addition to generating extra sales for Psion Computers.

www.sonicblue.com
www.diamondmako.com

Psion and InfoStream

Parthus Technologies has announced the launch of InfoStream, the world's most advanced Mobile Internet computing plat-

form on a single chip. Co-developed with Psion, who has signed a licensing and royalty agreement, InfoStream is designed to be the silicon platform for next generation wireless Internet devices, including smartphones, communicators, PDAs, Internet appliances and wireless portable tablets.

The InfoStream platform is powered by Symbian and ARM and is designed to take mobile computing to the next level by combining many of the rich features of the PC with Internet access and mobile phone capabilities. Users will be able to surf an 'always on' web, read emails or instant messages, store PIM data, synchronize with their desktop PC and even word process.

InfoStream combines high processing power with extremely low power consumption, both critical design criteria for next generation data-centric handheld devices. The ARM 920T-powered platform delivers 200MHz at 2.5V or 150MHz at 1.8V.

www.parthus.com

Series 5mx Executive Pack

In an attempt to woo anyone who still owns an older Series 3 or Series 5 'classic', Psion has repackaged their longstanding Series 5mx palmtop in a limited edition 'Executive Pack'. This comes with the latest PsiWin 2.3.2 software (enabling synchronization with Microsoft Windows 2000 and Microsoft Office 2000), registered versions of both Opera and the Psion WAP browser, a slimline leather case and mains adaptor. The pack is only available in high street stores in the UK, at a RRP of £430.

www.psionlife.com

Symbian v6.0 goes public

At the Developer Expo, which attracted over 1200 attendees, Symbian publicly launched version 6.0 of its open software platform, the latest evolution of EPOC, with related products from licensees expected to ship during the first half of 2001.

The 'Crystal' reference design, for keyboard communicators, was shown for the first

time at the Expo (read our preview analysis on page 39).

The Quartz reference design, featured in issue 29 and applying to smaller 'tablet' communicators, was also made available.

www.symbian.com

Faxing from the Revo

One of the final pieces of 'missing' software for the Revo family has now appeared. The same programmers that ported Sketch for the smaller screen have now released Fax, which will send and receive faxes over a normal telephone line or mobile phone using a modem. You can prepare and send a fax from any application on your Revo that supports printing, such as Word, Sheet or Sketch. See page 29 for a full review.

www.epocware.com

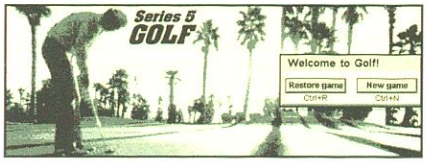
Scoot partner Trivanti

Scoot, the leading telephone directory service, has announced a partnership with Trivanti, the joint venture between Psion and United News and Media, to bring its directory content to Psion devices. Trivanti's PsionWAP portal will now benefit from in-depth content from both Scoot and its consumer service, Loot.

www.trivanti.com

Games Arcade lives again

Psion's classic Games Arcade, originally released in 1997 for the original Series 5, has been given a new lease of life with 'patches' to enable players with more modern palmtops to run the games at the



correct speed. Obviously, players will need to own a legitimate copy of the original pack in order to apply the patches. Versions are freely available (for the Series 5mx and Ericsson MC218) for Golf, Team Psion, Bomz5 and Stigma.

Note that only Golf (reworked under the name 'Fairway') is so far available in a version for the Revo family.

3lib.ukonline.co.uk/arcadesc.htm

Postcode-based services

Trivanti will use UpMyStreet.com's 'Find My Nearest' service to provide UK users of their PsionWAP portal with instant access to shopping and entertainment information in their local area. Users simply enter their postal code and are then able to choose from 12 different categories, including restaurants, banks, post offices, pubs, chemists and hospitals, all sorted by their proximity to the specified location.

www.trivanti.com
Wap: wap.psion.com

Secure Digital the future?

Also at their recent Developer Expo in London, Symbian announced their full support for the SD (Secure Digital) Memory Card, a compact storage standard to which industry handheld leaders Palm Inc. has already pledged their commitment.

The flash-memory based removable card provides an ultra-compact, reliable and easy-to-use medium to store high volumes of audio, visual and other data for digital music players, cameras, palmtops, smartphones, video cameras, cellular phones, GPS systems and other digital consumer electronics products. Its strong copyright protection capability meets the requirements of artists and content owners and offers greater data security for users. SD's physical profile is 24 x 32 x 2.1mm.

With a commitment to promote the SD Memory Card to its licensees, Symbian has also been registered as a member of the Secure Digital Association (SDA). The SD specification was developed by Matsushita, SanDisk and Toshiba.

PacketVideo on the way

PacketVideo, which is developing solutions for delivering video and audio to mobile devices over wireless networks, is expanding into the European market and has demonstrated a version of its technology for Pocket PC devices, enabling users to view video clips. PacketVideo plans to make its products available to users of EPOC and Palm handhelds shortly.

www.packetvideo.com

Queen's Award

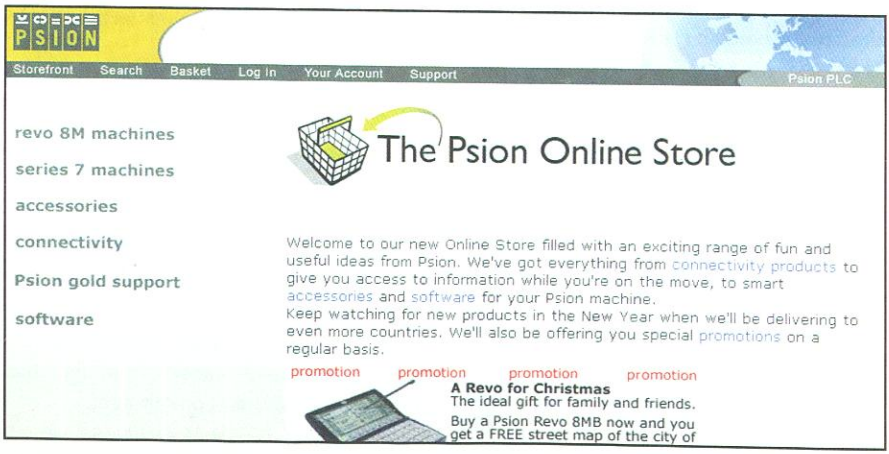
Psion Connect recently collected the Queen's Award for Enterprise for its range of Gold Card PC Card modems. The Queen's Awards provide public recognition of exceptional success in enterprise, innovation and the environment.

www.psionconnect.com

Psion online store opens

Psion has now opened their own online web store, selling the complete range of its palmtop accessories. You can also buy the Revo and Series 7, plus boxed software and a subscription to Psion's 'Gold Support' scheme.

store.psion.com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Welcome to our new Online Store filled with an exciting range of fun and useful ideas from Psion. We've got everything from connectivity products to give you access to information while you're on the move, to smart accessories and software for your Psion machine.
Keep watching for new products in the New Year when we'll be delivering to even more countries. We'll also be offering you special promotions on a regular basis.
promotion
promotion
promotion
promotion
A Revo for Christmas
The ideal gift for family and friends.
Buy a Psion Revo 8MB now and you get a FREE street map of the city of

SyncML 1.0 launches

SyncML, the initiative founded to enable a universal standard for mobile synchronization, has announced the release of its official version 1.0 specification. A number of companies demonstrated fully working SyncML implementations at the London launch, including a Psion Revo synchronizing with a Lotus Domino server and a Nokia 9210 communicator sharing data with a Nokia Mobile Calendar system.

www.syncml.org

ARM digital audio and video

ARM, maker of the processors in EPOC palmtops, has announced that it has ported four existing digital audio and video CODEC (Coder-Decoder) solutions to the Symbian platform. The modules are: an MP3 audio decoder, an MPEG-AAC audio decoder, plus MPEG-4 video encoder and decoders.

ARM's MPEG4 video decode technology is currently integrated into GEO Interactive Media and PacketVideo's video solutions.

www.arm.com

New Planner and offers

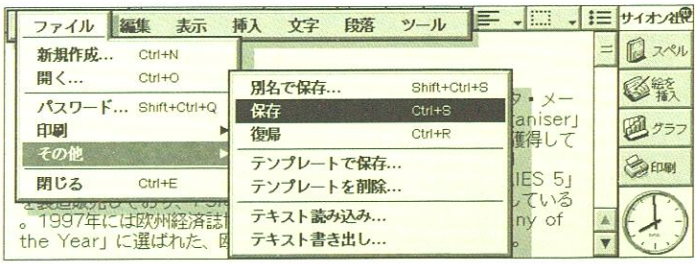
Palmtop Software has announced an addition to their popular Planner software. Street Planner London, as it sounds, is a cut-down version of Street Planner Millennium with just the data for Greater London. See page 21 for a review and analysis.

They're also now giving away free copies of either Route Planner (and Street Planner London) or Street Planner Millennium GB (or Europe) with every Palmtop GPS sold via their web site at the usual RRP of £170.

www.palmtopsoftware.com
www.palmtop.nl/routegps.html

Web pages in Japanese

Enfour KK has commenced a proxy server service for Psion users in Japan. This enables users of their UniFEP V2 Japanese language environment to access Japanese web pages. The proxy server will convert legacy Japanese text encodings to UTF-8 while retaining all content, layout and links. UTF-8 is an Internet compatible Unicode text-encoding standard which supports the mixing of Asian (and other non-Roman) languages and extended European character sets with standard Latin and ASCII.



Enfour's UniFEP software in action

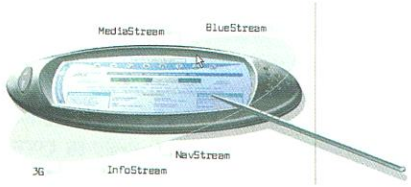
The service will also support Chinese and Korean encodings as UniFEP support for these languages is released later this year.

utf.enfour.com/proxy

Concepts and prototypes

A number of interesting photos and mockups of future Psion and Symbian-powered hardware have recently appeared on the Internet. In addition to those of the Nokia 9210, a Norwegian site has posted images of what appears to be a cross between a Series 5, a Revo and a mobile phone, and the Parthus site has a space-age oval tablet.

wapland.no
www.parthus.com



RiscStation Osaris

The Oregon Scientific Osaris caused a brief flurry of interest when it was released in 1999 but has remained relatively inconspicuous since then. Its main selling point was the remarkably low price (from £220 for the 4MB version when launched). It is now being rebadged as the RiscStation Osaris and relaunched at an education-friendly £169 (including VAT) for the 8MB version. Special classroom packs of five machines with accessories are also available.

As well as EPOC Connect, RiscStation are bundling the freeware PsiFS connectivity software, linking to the RISC OS computers found in many schools, and improving the much-criticised Osaris documentation. More details can be obtained from Mark Gillard, the Osaris Project Manager at RiscStation Ltd, 186 Elliott St., Tyldesley M29 8DS. Tel. 01942 797777

New PsiWin candidate available

An 'Open Candidate' of PsiWin 2.3.2 is now available from the Psion Computers website. This version (a 25MB download) adds support for both Windows 2000 and Office 2000. The final version will reportedly be available within the first three months of 2001. As soon as it becomes available, we will be including the final release version on the Palmtop CD.

www.psion.com/downloads

PsionWAP setup guide online

A detailed, step-by-step setup guide for PsionWAP is now online, including instructions for using the service with an existing WAP mobile phone.

www.psionlife.com/wapstepbystep.html

INDUSTRY NEWS

In this regular feature we devote a single page to what's happening in the non-EPOC sector of mobile computing...

UK company Hi-Grade has become the first British manufacturer to introduce a Pocket PC. The Hi-Pad 131 runs Microsoft Windows CE 3.0 and boasts both high quality audio and a backlit colour display, ideal for use with the integrated digital camera. It's powered by a 131MHz processor and comes with 32MB RAM, CF slot and infrared port.

Compaq has announced another new Pocket PC. The iPAQ H3130 differs from its predecessor in that it has 16MB of RAM rather than 32MB, a monochrome rather than a colour display and weighs slightly less than the colour unit. Also included is a self-adjusting backlight and Microsoft's Transcriber handwriting recognition package. This will be sold everywhere except the USA and Japan.

Intermec has unveiled a new keyboard-equipped handheld computer. Running Windows CE Pro, the Intermec 6651 comes with 16MB of RAM, a monochrome display and an integrated digital camera. The device employs a fold-over clamshell design, which permits it to be used as a standard handheld computer with keyboard or as a pen-entry tablet.

Handspring has added two new models to the Visor range of computers. The Visor Platinum has a monochrome display and a 33MHz processor and is currently the fastest Palm OS device around. The Visor Prism is Handspring's first colour device, has full 16-bit graphics and is powered by a rechargeable power cell.

Oregon Scientific has collaborated with British Telecom and Pocket.com to introduce a new email device that allows anyone to send and receive email via just about any telephone. The BackFlip PDA Pro is easy to use: you write an email, dial a telephone number and then press a button. It can also be used as a 512KB personal organiser that can be synchronized with a PC.

A company from the United States has launched a mobile device running Linux, the first of its kind. The Agenda VR3 will be made available in the UK early in 2001. Similar in appearance to the Palm and Handspring range of computers, the VR3 employs character recognition software and comes with a range of PIM applications.

Andy Nott

Shareware Shorts

Steve Litchfield, maintainer of the 3-Lib shareware library, takes a look at the latest additions to the world of Psion shareware...

As the next generation of EPOC equipment appears on the horizon (see our Crystal preview on page 39), the shareware and commercial software worlds have reacted very differently. Almost nothing really new of any substance has appeared from a commercial software house for many months now, with most companies determined to leave their ER5 portfolios well alone and look ahead to the future and to other platforms. While making sense from a long-term business point of view, it's disappointing to you and me, the Psion user looking for extra ways to use our palmtops. Little by way of killer applications like Street Planner and games such as SimCity have come along for a long, long time.

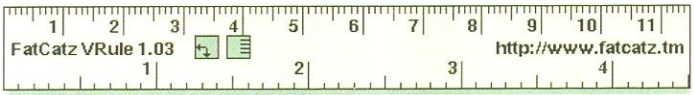
As with so many times in the past, it's the shareware world that has stepped into the breach to keep things bubbling along. With the rise and rise of the Internet as a research tool and source for new software, more and more programmers are selling their wares online in true 'try before you buy' fashion. And unlike the commercial world, shareware authors are largely looking at the existing user base of hundreds of thousands of owners rather than to a virtual market somewhere in the distance. There's never been a better time to support shareware.

Claim your free software!

It seems that many Series 7 and netBook owners haven't yet taken up the offer by Psion Teklogix (the new name for Psion Enterprise, itself the new name for Psion Industrial) of a free copy of the Opera web browser, normally costing up to $40. You need to sign up as one of their 'partners' to get it, a free process, which you can accomplish at *www.enterprise.psion.com/partners/download.htm* .

VRule

Own up. How many times have you scratched your head when wanting to measure something, turfed through piles of papers and wondered where your ruler is? But I bet you can locate your Psion in seconds. Now one can become the other...



VRule measures up

almost. The freeware *VRule*, by **FatCatz**, transforms your Revo, Series 5/5mx or Series 7/netBook into a virtual ruler. It may look and sound like a gimmick, but it's solidly and professionally programmed and surprisingly useful. *www.fatcatz.tm*

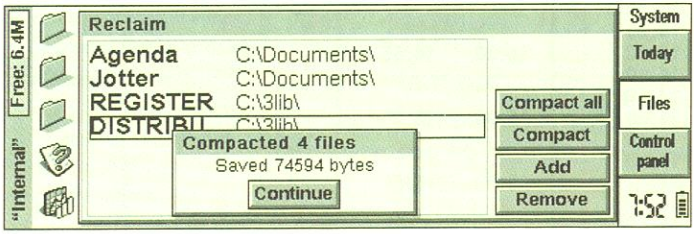
Reclaim

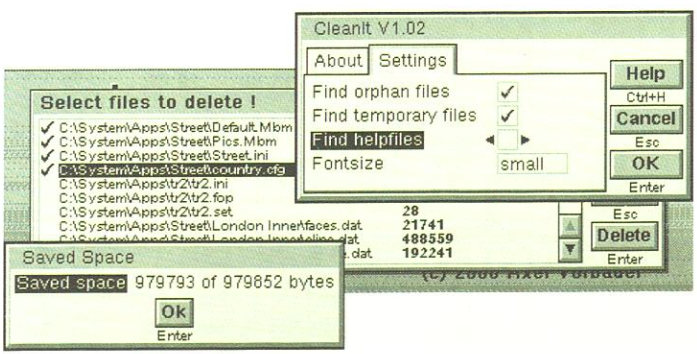
Also freeware is this dialog-based compaction tool, by **FreEPOC**. The idea of a utility doing the rounds of your palmtop filing system, compressing all Agenda, Jotter and Data documents (which are all, at heart, databases, in which deleted or edited entries leave wasted space behind) isn't new, but Reclaim is nicely programmed, with an integrated file browser letting you manually pre-select your chosen list of candidates for compaction. *www.freepoc.de*

CleanIt

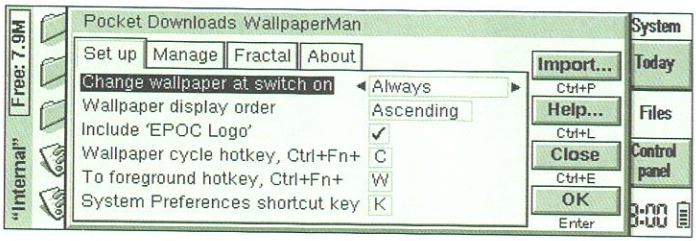
Along similar lines is the freeware *CleanIt*, by **Axel Vorbauer**. This searches your filing system for orphaned files in a \System\Apps

Compacting named databases with Reclaim





Spring cleaning with CleanIt

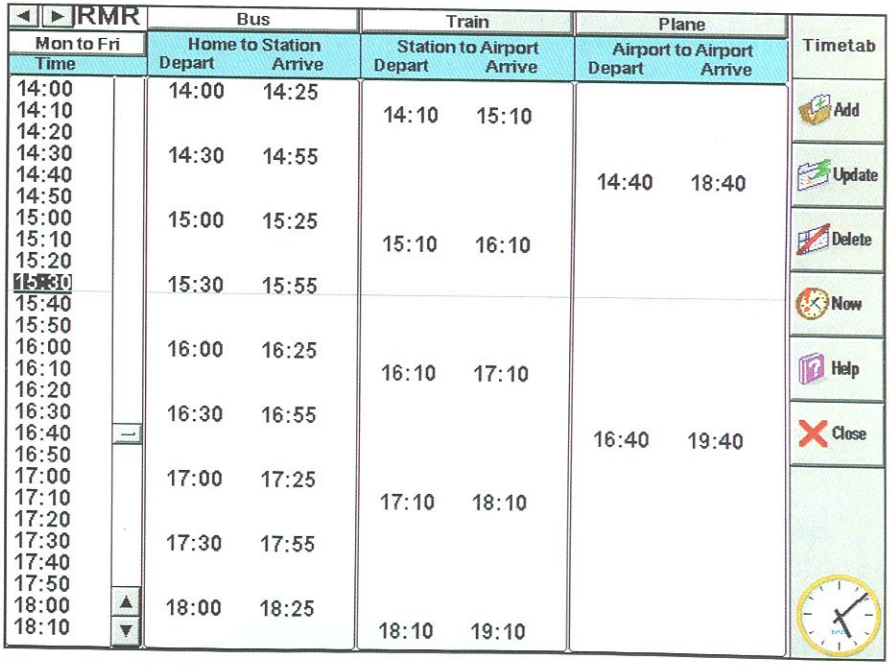


Configuring WallpaperMan

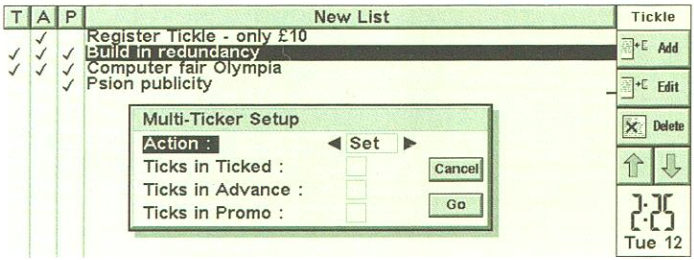
folder (left behind after an application has been removed), temporary files (left behind after a program crash) and help files which are no longer needed. Its results are then presented in a list, from which items can be deleted if you agree with its choices. *www.vorbauer.com*

WallpaperMan

A new utility from a new developer, *WallpaperMan* from **Pocket Downloads** is touted as the ultimate System screen wallpaper manager. Saving you all that messing around inside the System 'Preferences', the utility will automatically change your wallpaper as often as you like, right up to a different graphic every time you switch on. Wallpa-



RMRTable—public transport will never be the same again



Tickle running on the Series 5

perMan will also handle the import of MBM pictures, putting them into the correct place in the \System folder. There's even a fractal generator in case you haven't got any extra pictures handy. We had problems getting WallpaperMan running on the editorial Revo, so look to the web site below for bug fixes and make sure you download the latest version. *www.pocketdownloads.com*

RMRTable

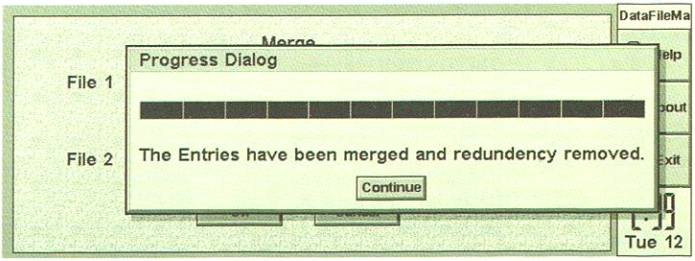
New from the prolific **RMR Software** is the shareware *RMRTable*, which stores and presents timetables, typically for bus, train or plane, although you can customise most aspects of the application if needed. All information has to be input manually, since electronic versions of existing timetables are likely to be non-existent. Although you could use a spreadsheet for much the same purpose, RMRTable offers a few tricks of its own, such as recording and handling expiry dates for each timetable. *www.rmrsoft.com*

Tickle

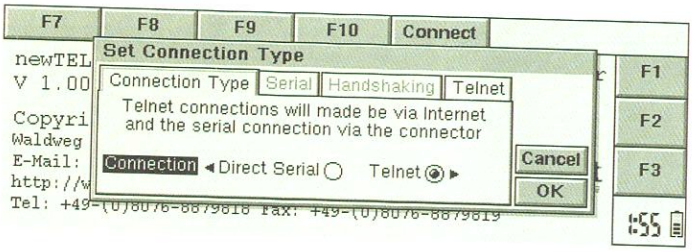
Also taking an idea further than the built-in applications, **Robert Longbottom**'s shareware *Tickle* allows up to six check marks against a number of items. This might be especially useful when managing a project or event, as items can be ticked as agreed, implemented, signed off, etc. Items can be sorted by any combination and order of name or specific tick column. A special tool allows entire columns to be 'ticked' off in one operation. At the time of writing, Tickle only runs on the Series 5/5mx. *RobertCL.tripod.com*

DataFileManager

Information Technologies (I) Ltd has produced something that's been lacking for a long, long time in the Psion world—a utility to compare two Data files and merge them intelligently, removing duplicate records. Sharing address books with a partner is one



Intelligent Data merging at last—DateFile-Manager



Access 'serious' computers with NewTELnet

obvious application, but everyone will have their own favourite. The merged database is saved as a new file. The shareware *DataFile-Manager* leaves the original files thankfully untouched, saving the finished product as a new file, albeit uncompressed (see Reclaim, above). *www.palmix.itil.com*

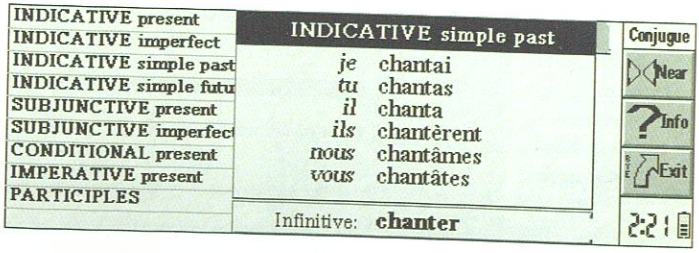
NewTELnet

Based on FlyTERM, a terminal emulator featured in Palmtop in the past, *NewTELnet* is as it sounds, a TELNET terminal emulator for Internet (or direct serial) access to mainframes and other 'serious' computers. Each on-screen button can be programmed to send any sequence of characters, control characters or escape sequences. **NewNet**'s shareware NewTELnet stores the last 10 remote hosts connected to, to help you select different hosts easily without having to enter their names for each connection. Support for screen layouts larger than the palmtop's is done in several different ways, most intuitive of which are simply dragging the display with the pen and setting the program to automatically 'follow' the active cursor. There's support for all standard ANSI, VT2xx, VT100, VT52, TVI950, and ADM3A escape sequences, and all data traffic can be logged for later diagnosis or reference. *www.newnet-marketing.de*

Conjugue

A rather specific reference tool, but nonetheless occasionally useful, is **Jean-Baptiste Lernout**'s *Conjugue*. There's a built-in list of regular and irregular French verbs, with conjugations for present, imperfect, simple past and simple future tenses, plus subjunctive, imperative and conditional, should your sentences aspire to perfect fluency. Additional verbs can be added to the database on the frequent occasions when common words are not found ('aimer' and 'donner' are both absent, for example). Conjugue is shareware, with most of the tenses blocked out until you've paid the registration fee. *www.jblernout.fr.st*

Conjugue sings its own praises



CixEd/PsiCix

FEATURED UPDATE!

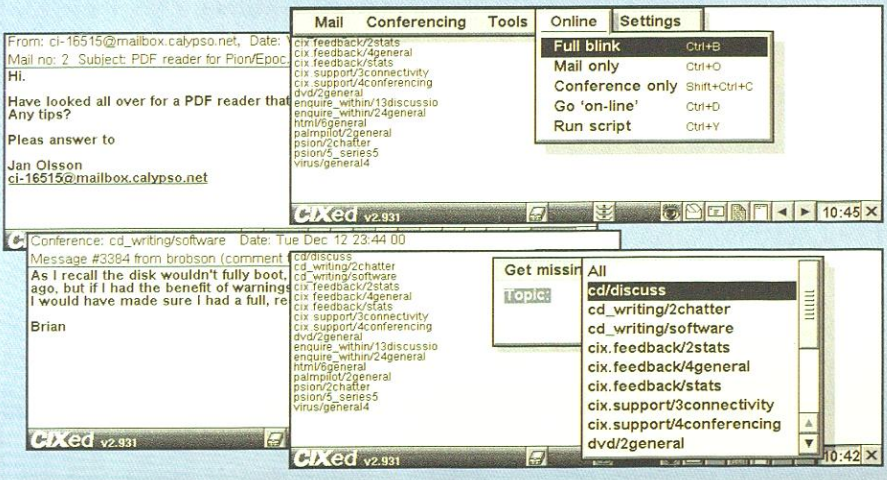
Although a project started by me back when the world was young, *CixEd* has come on in leaps and bounds under the authorship of **Mark Fleeming**, **Andrew Giddings** and others, to the current version 2.931. Essentially, it's an offline email and conferencing tool that uses the popular UK CIX conferencing system as its host. The idea of themed conferences and topics may already be familiar to you from Usenet newsgroups, but CIX has always taken these one step further by providing moderators, file lists, topics and proper message threading, so you can follow a sequence of messages and replies in logical order.

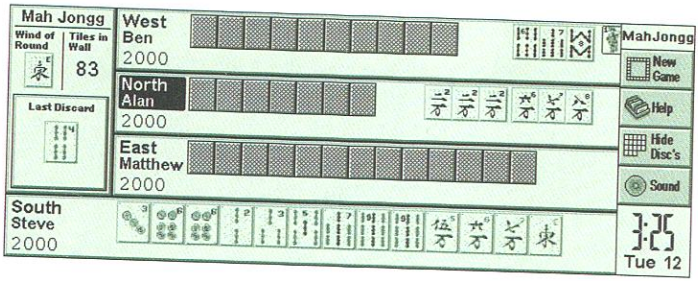
Because CIX's system is based on plain text messaging, a variety of offline readers (OLRs) have sprung up, of which CixEd is one, enabling you to 'blink' to CIX, uploading previously constructed emails and replies, performing any file actions needed and downloading new email and conference messages. This process usually takes only a minute or two, depending on the speed of your connection.

Although the Psion screen doesn't allow for a multi-paned message reader, there's enough threading logic in CixEd to assist in keeping track of who said what.

Unlike Usenet, where message headers are huge, and spam and abuse are often the order of the day, the CIX conferences are significantly more refined, leading to much smaller downloads, far quicker blinks and ultimately a lower phone bill.

PsiCix is the 'next generation' version of CixEd, with more compact message storage, better message threading and the potential for Internet-based, rather than dial-up blinks. PsiCix is still in development, see *www.psicix.com* for latest details of both programs.





Mah Jongg in its full glory

Mah Jongg

Do you really understand the rules of Mah Jongg? Do you know your pungs from your chows? I thought not. Luckily, **Adrian Collister**'s shareware version contains a splendid help file which illustrates all you need to know. The game is definitive, with well-designed screens and pen support, although it requires a Series 5/5mx at present. *pages.eidosnet.co.uk/~a.collister*

tdDomlink

Although there's unfortunately been no attempt to recreate them graphically, **Trevor Mendham**'s shareware dominoes game still uses the end-to-end chaining familiar to most of us from our childhood. In this solitaire, dominoes appear at random and have to be placed on the current grid in such a way as to chain as many numbers as possible and score points. Orientation of each piece is with the small selector at the top-left of the screen. A 'tiles left' view shows at a glance which combinations have yet to appear and you can discard pieces if you really can't find a suitable place for them. *www.tendan.com/games*

tdFive

Also by **Trevor Mendham** is this version of the familiar 'five in a row' counter strategy game. Three skill levels should keep you on your toes, although the board size does mean you need good eyesight to keep track of the action. tdFive is also shareware. *www.tendan.com/games*

Shareware availability

Please note that, by definition, many of the latest items featured in Shareware Shorts will *not* appear on existing Palmtop CDs, but on subsequent pressings of the disk. If you wish to receive every edition of the CD then see page 138 for details. To find the latest version of the programs mentioned here, go to the relevant author's web site as given in the text.

As mentioned elsewhere in the article, the vast majority of EPOC applications mentioned in Shareware Shorts run properly on the Psion Series 7/netBook, Series 5/5mx, Revo and compatibles, unless otherwise stated. If a program misbehaves on *your* EPOC computer, check the author's web site first and then email them if necessary.

What is shareware?

Written by professional programmers and enthusiasts to meet specific (and sometimes unusual) needs, shareware is often supplied for use on a thirty day trial basis. If you like the software you are then asked to send a payment to the author. Some programs are freeware and don't require any payment at all. Each program comes complete with information about how to install and use it, and how to pay for it.

Where can I find it?

One way to get any of these programs is from the Internet. If you've got access to the web then there are several on-line indices (e.g. at www.epocsoftware.com) which link directly to the relevant author download page concerned.

Things are even easier if you haven't got Internet access. As long as the program has been out for a month or so, you should find a copy on the latest edition of the Palmtop CD-ROM, indexed into the appropriate category.

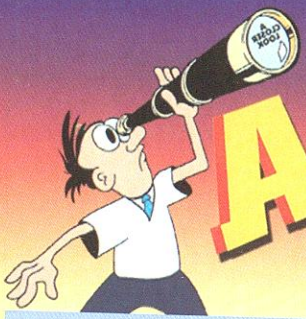
How do I use it?

Once you've found the file you want, there are three steps you may need to take:

1. Decompress the file, if necessary. Applications on our Palmtop CD will already have been decompressed for you, but those on the wider Internet will almost certainly be 'zipped' up, to save bandwidth and your phone bill. If you've never seen a ZIP file before, install an unzipping utility onto your desktop or palmtop computer. For PC users, the most common is WinZIP (which can be found on most PC magazine CD cover disks); for Macintosh users, try ZipIt; for EPOC itself, get RMRZip (from www.rmrsoft.com). Once installed, you can double-click on any downloaded ZIP file and it will be automatically expanded into its original component parts.

2. Examine the files available. Most programs come with a welcoming README.TXT file, which you can read in any text editor or word processor. This should explain how to install the application and how to register it. Sometimes the latter is described inside the program's help screens instead. Well-behaved EPOC applications come as one or more SIS files, e.g. 'mygame.sis'. These can be double-clicked on to install them directly using a serial (RS232) link to your palmtop. If you experience problems at this stage, it's worth noting that you can also copy SIS files onto your palmtop and double-tap on them there instead, from the System screen.

3. The newly installed program will automatically appear on the Extras bar. Press the 'Extras' application icon to check and to launch the software.



A Closer Look

...at some of the newest and most interesting products for your palmtop

Star Ratings:

★★★★★ Excellent
★★★★☆ Good
★★★☆☆ Average
★★☆☆☆ Fair
★☆☆☆☆ Poor
☆☆☆☆☆ Dismal

Interpreting reviews

Quality: the *Quality* star rating reflects how well the product works, whether it includes all the features you'd expect, whether the interface is consistent and easy to use, and in data-based software products it also reflects the quality of the information contained in the program.

Value: the *Value* star rating reflects the value for money of the product, taken within the context of what the program (or other product) does. Therefore a simple utility program will be rated differently to a sophisticated application at the same price.

Does it work on my palmtop?

Items reviewed should work with the Psion Revo and Revo Plus/Diamond Mako, Series 5/5mx, Series 7/netBook and Ericsson MC218 unless otherwise specified, though some programs may not currently support colour or utilise the full screen size of the Series 7 and netBook.

Programs *may* run on the Oregon Scientific Osaris, though part of the display may be clipped due to the Osaris' smaller 320x200 pixel screen. Osaris users should always consult the program developer before purchasing.

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Palm-Tec Solid brass pointers 38

Street Planner Millennium London

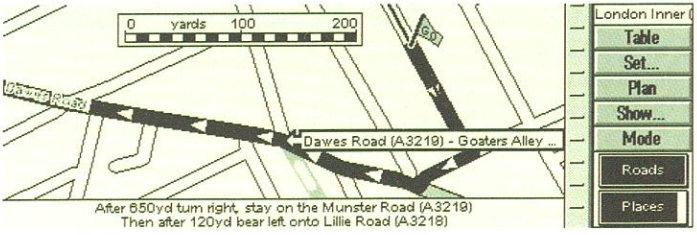
Another year, another incarnation of Street Planner. This is a repackaging of the well known application to suit customers who are based in, or only interested in visiting Greater London.

In case you missed our most recent full review of Street Planner Millennium in issue 27, it's a comprehensive street mapping application and route planner, provided that your intended journey falls within one of the installed map regions. The well-honed interface can be driven by either pen or keyboard and there are mountains of usability features, including a variety of ways to move around and set departure, destination and vias.

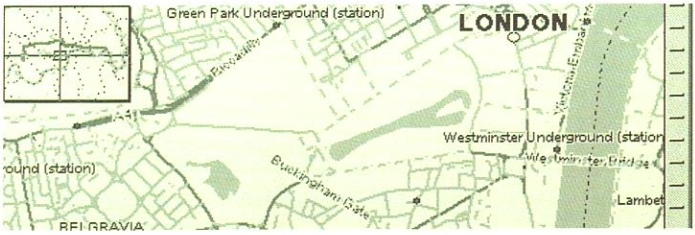
The route planning engine is exemplary, taking only around 30 seconds to calculate a typical cross-London journey. Once worked out, you can use the arrow keys to step through a route, junction by junction, with clear instructions that can be displayed at the bottom of the main map screen or in a 'split' (or full) screen table. Full GPS support means that your current position can be overlaid on the map in real time.

A total of four maps are included in Street Planner Millennium London, corresponding to four increasingly larger coverage regions and requiring between 940K ('Inner London') and 4.5MB ('London area') of Psion disk space. Apart from these maps, virtually everything included is identical to its more generic bigger brother. The installer, help files, application 'splash screen' and HTML-format manual on the supplied CD all make no mention of being for the London version.

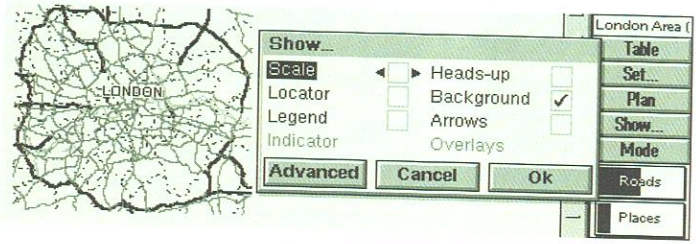
The aforementioned maps are indexed rather confusingly into hundreds of towns, areas and roads, and selecting any of these merely installs the London map of sufficient size to include the selection. It's the end product that counts though, and each of the London maps has the usual impressive detail. I especially liked the 'Show' toolbar button, which provides a single dialog to toggle



Navigating a cross-London route

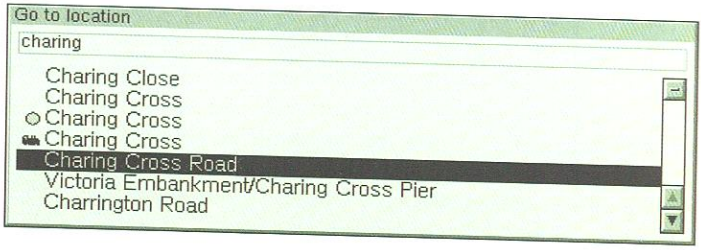


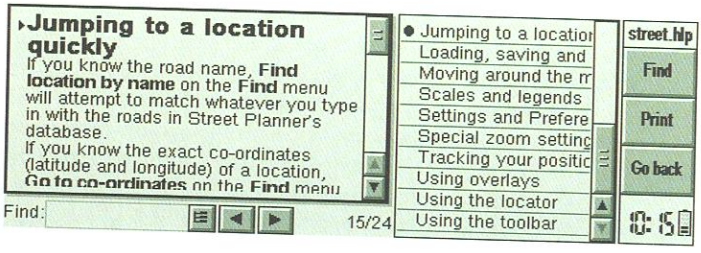
London in the palm of your hand



'London area', fully zoomed out

Quick-matching in the built-in database




Jumping to a location quickly
If you know the road name, Find location by name on the Find menu will attempt to match whatever you type in with the roads in Street Planner's database.
If you know the exact co-ordinates (latitude and longitude) of a location, Go to co-ordinates on the Find menu
Find:
15/24
Jumping to a locatior
Loading, saving and
Moving around the m
Scales and legends
Settings and Prefere
Special zoom setting
Tracking your positic
Using overlays
Using the locator
Using the toolbar
street.hlp
Find
Print
Go back

A polished and informative help file

on and off all the various map elements. There's the option to display background detail such as lakes and rivers, although this also adds a grey tint to urban areas on monochrome Psions that tends to reduce the apparent contrast.

For anyone with even a passing interest in Greater London and who doesn't already own a copy of Street Planner, this represents a very good way to acquire the program at a budget price.

Steve Litchfield

Street Planner London

From: Major Psion dealers or PalmTop Software (*www.palmtop.nl*)

Availability: Now

Price: £15 on CD or $20 download

Quality ★★★★½

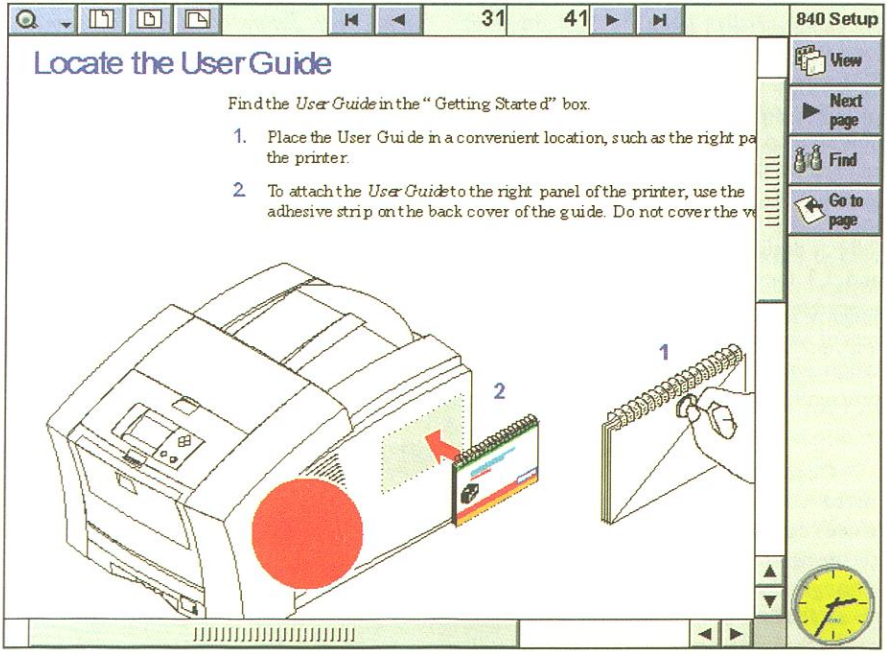
Value ★★★★½

Pdf+

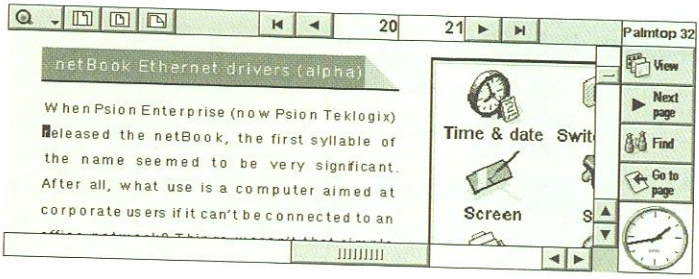
Adobe's PDF (Adobe Acrobat) document format has become such a widespread standard over the past couple of years that it's unusual to find a commercial software CD that *doesn't* have its documentation supplied as a PDF file.

The big advantage of PDF (Portable Document Format) over other alternatives is that it offers a means to create and view 'rich' document content that can be relied upon to appear consistently and accurately on a variety of desktop computer platforms. It is designed to represent typefaces and graphical images accurately and to preserve all other formatting and document pagination. It also produces high resolution printouts with all custom fonts correctly preserved, regardless of whether they are present on the target computer.

As reported in our 'Training the Acrobat' feature in issue 27 of Palmtop, reading PDF files on an EPOC device has, until now, been a painful process. Early versions of Sander van der Wal's 'Pdf' software were slow, couldn't read the newer Acrobat 4 (PDF 1.3) files, and wouldn't handle compressed or password protected files. The alternative for Series 7 or netBook users was Adobe's own Java-based viewer, though this was agonisingly complex to install and run, then interminably slow and unstable in operation, even on a 190MHz netBook.


31
41
840 Setup
Locate the User Guide
Find the *User Guide* in the "Getting Started" box.
1. Place the User Guide in a convenient location, such as the right pa
the printer.
2. To attach the *User Guide* to the right panel of the printer, use the
adhesive strip on the back cover of the guide. Do not cover the v
View
Next page
Find
Go to page
1
2

Text and graphics in full colour on a Series 7


20
21
Palmtop 32
netBook Ethernet drivers (alpha)
When Psion Enterprise (now Psion Teklogix) released the netBook, the first syllable of the name seemed to be very significant. After all, what use is a computer aimed at corporate users if it can't be connected to an
Time & date
Screen
View
Next page
Find
Go to page

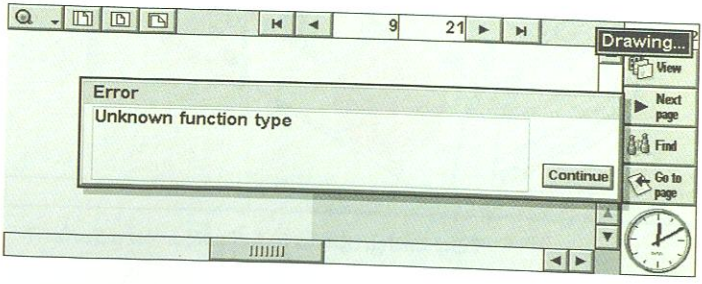
Viewing a page of Palmtop. Some letter spacings on custom fonts are a little irregular, but quite readable

The original 'Pdf' program has recently been updated and is still available as freeware, but a new version, 'Pdf+', is now available as commercial software, with several important features added. These include printing capabilities and copying of selected text to other applications, plus support for hotlinks and bookmarks. Pdf+ can also read password protected PDF files and presents a list of recently-opened documents.

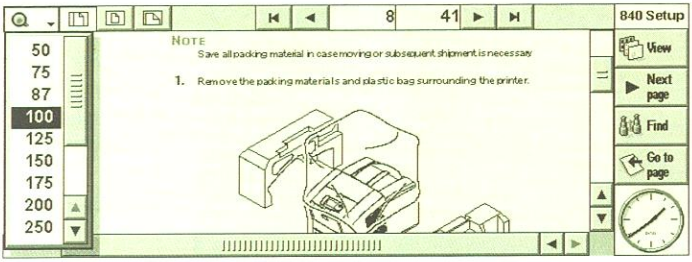
Given the relative complexity of the PDF format, and having seen so-called PDF viewers running on a Palm organiser, I had fairly low expectations of Pdf+. Having now spent a few hours using the program, I can report that it exceeded those expectations in almost every area of operation.

Pdf+ is designed to handle PDF 1.0, 1.1, 1.2 and 1.3 formats, which effectively means everything up to and including the most recent version, Acrobat 4. The documentation warns that with the more limited processing power of PDAs, not all PDF functions are built into Pdf+. In practice, a few of the most graphically complex PDF 1.3 (Acrobat 4) files we tried came up with error messages while loading, but still managed to show readable text and graphics.

The biggest limitation of Pdf+ stems from the fact that under EPOC it cannot render TrueType, Type 1 or Type 3 fonts. This means that if the original document was created in anything other than Helvetica, Times New Roman or Courier, then the text will appear in a substitute font instead. The resulting text is normally quite acceptable though, and line endings are almost always perfectly preserved. The documentation warns that in these cases some text may be displayed incorrectly, such as ligatures (where 'fi' is used in place of 'fi'), though we created a test document from the text of Palmtop magazine (which uses ligatures throughout), and experienced no such problems.

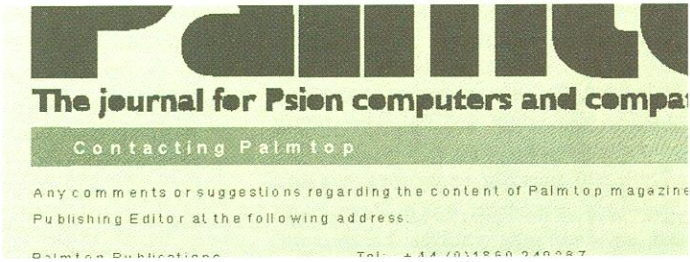


Occasional error warnings with complex documents, though almost all PDFs are ultimately viewable



A wide zoom range provides maximum flexibility at all times

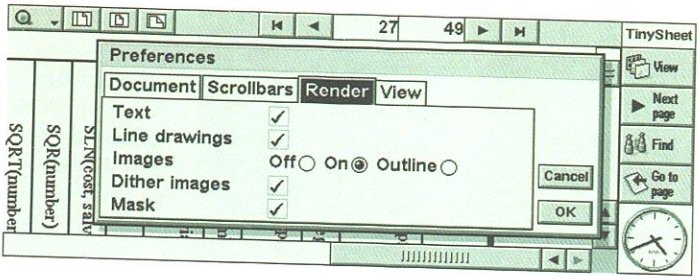
The immensely useful 'Maximize view' mode, showing page content without other screen clutter


The journal for Psion computers and compa
Contacting Palmtop
Any comments or suggestions regarding the content of Palmtop magazine
Publishing Editor at the following address.

EPOC's limited font technology does mean that Pdf+ has its work cut out to maintain realistic character spacing between letters, and this manifests itself as text that can sometimes be a little hard to read at low magnifications. Thankfully, Pdf+ has an excellent zoom range of between 50% and 400%, which means that any awkward text can always be shown at a high enough zoom ratio to make it easily readable. Of course, the small screen size of the Revo and Series 5 mean that rather a lot of scrolling may be necessary in order to navigate a document, but an excellent 'Maximize view' feature removes all toolbars and scrollbars, devoting the entire screen area to the page being viewed. You can also rotate pages in 90 degree increments, to view them sideways (or even upside down) instead.

Scrolling around the page is made easy by using the four arrow keys, and zooming can still be performed by the standard EPOC keystrokes, or by the familiar zoom icons at the edge of the screen. Zooming up to 300% or 400% occasionally gave 'Out of memory' errors with large documents, though the next lower zoom ratio of 250% was always acceptable for viewing.

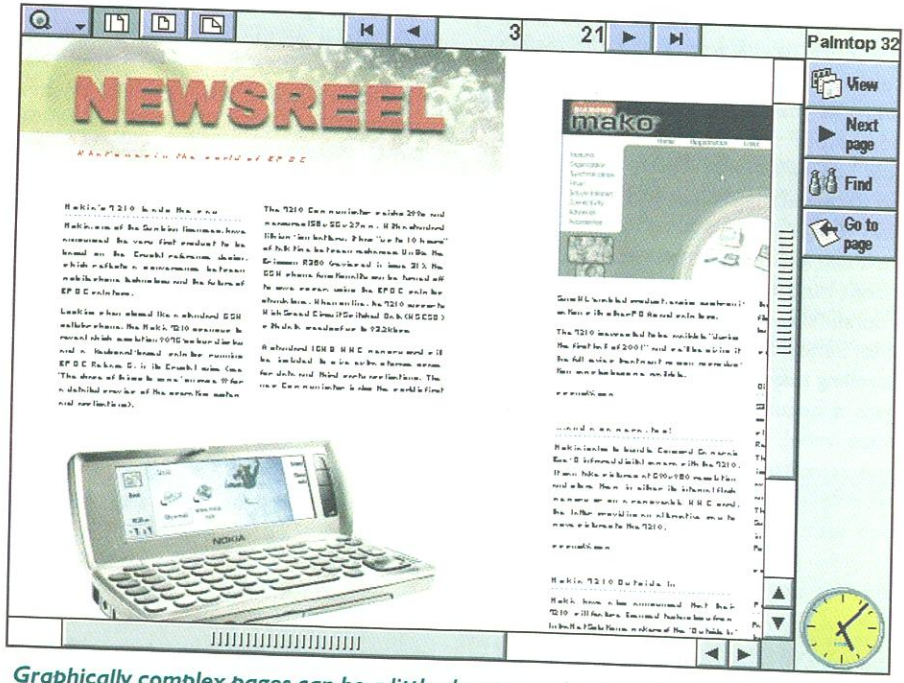
Navigation is further aided (when not in 'Maximize view' mode) by a drop-down zoom menu and on-screen buttons to take you directly to the first, previous, next or last page of the document. The top toolbar also displays the current page number, the total number of pages in the document and Adobe-style icons to fit a full page or page width to the screen. Quick access to any page is achieved with a handy 'Go to...' option, and moving to the previous or next page can also be accomplished quickly by pressing the [P] or [N] keys respectively. Although this works well enough, it would have been preferable to also be able to do this with the up and down arrow keys, so that continued scrolling beyond the top or



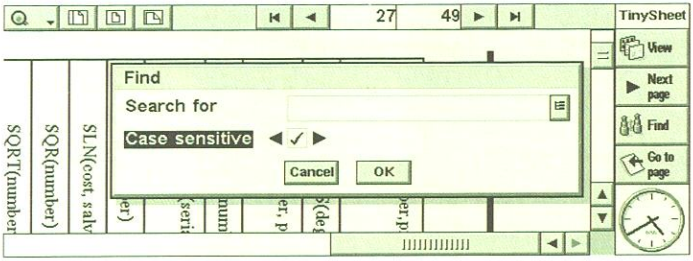
Choosing how to view images. Note the rotated text in the background

bottom of a page would move directly onto the next one in sequence.

Aside from file compatibility and navigation, speed is also important and Pdf+ put in an impressive performance here. Opening a 3MB, 300 page document took less than 15 seconds on a Series 5mx or Revo. Pages with very complex graphical backgrounds sometimes took more than a minute to render, though once on screen the pages could be scrolled at normal speed. Such complex pages are usually associated with promotional literature in PDF format rather than the more common instruction manuals and documentation, so this is an unrepresentative case for most users. To speed up navigation of graphics-heavy pages it's



Graphically complex pages can be a little slow to render, but the content is all there



Finding text within a PDF document

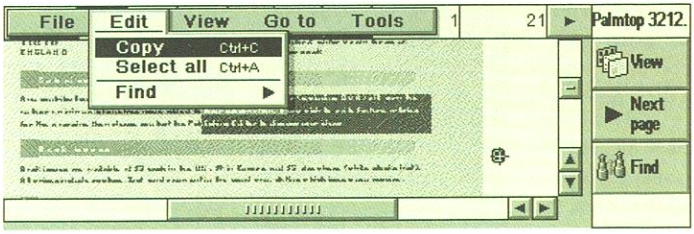
possible to set images either to appear as outlines only, or to be omitted entirely.

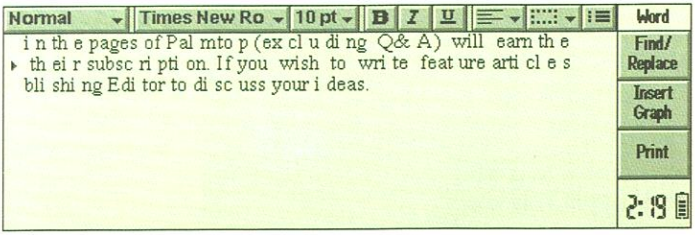
A great benefit of PDF-based documents is of course the ability to search for any text string within the file. The search facility in Pdf+ lacks advanced features such as wild-cards or backward searches, but it does offer a case sensitive option, so you can elect to find, say, "Smith" but not "smith". Searching can take up to five seconds or so for an average page of text, but scanning the entire text of a 300 page, 60,000 word graphical PDF file in under 10 minutes is still quite acceptable for a palmtop computer.

Pdf+ has an export feature that will capture the entire text content of your Acrobat document to a standard 'txt' file. You can also select a specific block of text on screen, though as Pdf+ is unable to select text logically, word-by-word, it must be done (rather unintuitively) by dragging out a rectangular area of pixels on screen. Sadly, both methods add masses of seemingly random spaces within the resulting text file if the original PDF file contains non-default typefaces as described earlier, so results can't be guaranteed.

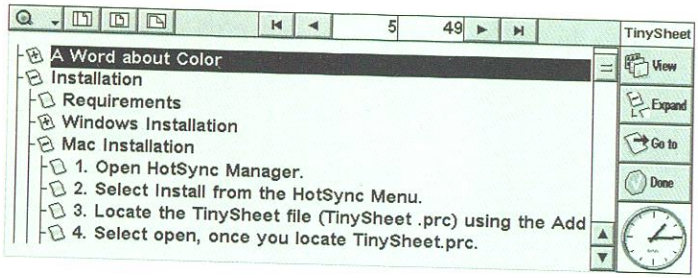
Many multi-page PDF documents are created with a hierarchical system of book-

Selecting a rectangular section of text for export to a plain text file...




Normal
Times New Ro
10 pt
Word
Find/ Replace
Insert Graph
Print
2:19
i n th e pages of Pal mto p (ex cl u di ng Q& A) will earn th e
th ei r subsc ri pti on. If you wish to wri te feat ure arti cl e s
bli shi ng Edi tor to di sc uss your i deas.

...with the resulting file sometimes appearing with lots of unwanted spaces



Good support for Adobe's Bookmark facility

marks, and these are fully supported under Pdf+, though in common with the free desktop Acrobat viewer application it's not possible to add your own bookmarks.

Tapping on an underlined (linked) section of text will follow the appropriate link, and if it is a URL then your Psion's web browser will be launched automatically and taken to the appropriate web page.

Printing from Pdf+ is limited if you only have a local printer. Graphics cannot be printed and text is rendered in the nearest corresponding built-in font available on the target printer. Rotated characters cannot be printed at all. Printing via PsiWin gives far more fully-formed graphical printouts, as you'd expect. If you have no capability to print your PDF files via a desktop computer, don't expect to use Pdf+ as a local printing substitute.

All in all, and taken into the context that it's running under a palmtop computer operating system, Pdf+ is an impressive program. Of more than two dozen PDF files that we tried, the software successfully managed to read every single one. It runs quite happily on all EPOC palmtops, and at only 400K in size including its optional 65K help file, it can even be squeezed onto a Revo.

Of course, there's still no means to create PDF files directly from a Psion palmtop, local printing options are crude and there's certainly room for further improvement. However, as a means to carry around and access the ever-expanding array of Acrobat-based documentation, Pdf+ does an eminently serviceable job. It's becoming increasingly true to say that any computer operating system that can't handle PDF files is really not keeping pace with modern trends and, thanks to Pdf+, that criticism can no longer be levelled at EPOC.

If your requirements are modest then you may like to download the free cut-down version from *www.mBrainSoftware.com* first, but for most regular PDF users, the £15 asking price for Pdf+ is well worthwhile.

Steve Clack

Pdf+

From: Go32 *(www.go32.com)* or mBrain *(www.mBrainSoftware.com)*

Availability: Now

Price: £15

Quality ★★★★☆

Value ★★★½☆

Fax

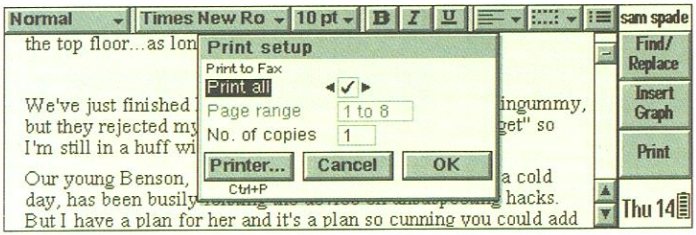
When the Psion Revo first saw the light of day, dedicated Psion users moving from the Series 3 or Series 5 found that a few of the features they'd come to know and love were missing. One of these was support for faxes, and with this new offering from Epocware (the people who ported Sketch to the Revo) the gap has now been filled.

As you'd expect, Fax has only two real functions: the ability to send and receive faxes. If you've used other Psion fax applications in the past, you'll be relieved to know that this new package works in broadly the same way, by making use of a new printer driver.

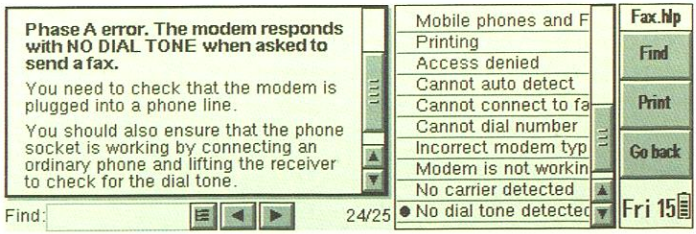
The steps needed to send a fax are fairly straightforward. First you create the fax content in any application that supports printing, such as Word, Sheet (or even the aforementioned add-on Sketch). Next, select 'Print', changing the 'Printer' to 'Print to fax'. This converts the document into a format suitable for faxing and places it into a special 'Fax' folder. Finally, start the Fax application and select 'Send'. You are then prompted for the fax number to send to, with the option to look up the fax number in Contacts (cunningly, Fax filters out all entries without a fax number).

Receiving a fax within the program is even simpler: just tap on 'Receive'. There is also support for receiving 'faxbacks'. Once received, faxes can be viewed at zoom levels of 200%, 100%, 50% and 25%.

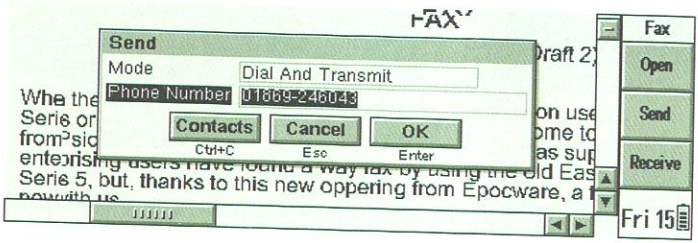
Fax works by creating a dedicated fax file for each incoming and outgoing transmission. Sadly, it can't handle lists of faxes or fax queuing. If you want to deal with more than one outgoing fax, you have to go to 'Fax' and rename 'outgoing fax' so that creating a second fax doesn't overwrite the first. Incoming faxes are less of a problem as you can always alter the file name. Manipulation of files is done via the 'Open' command on Fax's menu. This approach is fine for one-off faxes, but I can't help feeling that a list view would be more appropriate for those



About to send a fax from Word

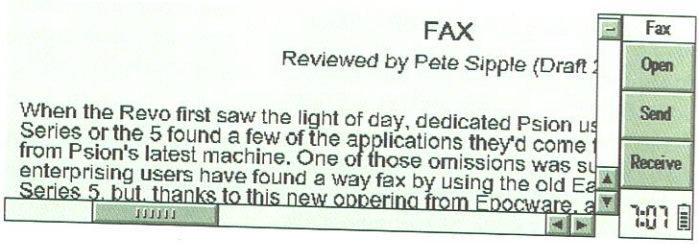

Phase A error. The modem responds with NO DIAL TONE when asked to send a fax.
You need to check that the modem is plugged into a phone line.
You should also ensure that the phone socket is working by connecting an ordinary phone and lifting the receiver to check for the dial tone.
Find:
24/25
Mobile phones and F
Printing
Access denied
Cannot auto detect
Cannot connect to fa
Cannot dial number
Incorrect modem typ
Modem is not workin
No carrier detected
No dial tone detected
Fax.hlp
Find
Print
Go back
Fri 15

Fax's help file, explaining error messages



Sending a fax

A fax being viewed at high resolution


FAX
Reviewed by Pete Sipple (Draft
When the Revo first saw the light of day, dedicated Psion us
Series or the 5 found a few of the applications they'd come
from Psion's latest machine. One of those omissions was su
enterprising users have found a way fax by using the old Ea
Series 5, but, thanks to this new oppering from Epocware, a
Fax
Open
Send
Receive
7:07

wanting to work regularly with multiple documents.

As well as printing out a fax using one of the built-in Revo printer drivers, you can save it as an 'EPOC picture' (MBM) file, which then allows you to modify it with an image editor such as Sketch and fax it back again.

I was able to send and receive documents with both a Psion Travel Modem and a 3Com Sportster 56k modem, but had no success with my Ericsson R320, despite trying several fax initialisation strings and configurations. From reading other people's comments online, Fax *does* appear to work with mobile phones, so it may be a problem unique to my handset. If you want to use Fax with a GSM phone then you should ensure that your SIM card has been data-enabled and that your phone has a modem capable of faxing (i.e. not just a standard data modem). Motorola Timeport L7089 owners should note that this handset does not support faxing over infrared.

Overlooking a few rough edges (such as minor spelling mistakes in the menus and the occasional crash), Fax worked fairly well. It comes with a useful help file, containing an explanation of how to deal with specific error messages. Future enhancements, such as support for multiple faxes or a log of sent/received faxes, would round this off as a useful solution for mobile users.

Pete Sipple

Fax

From: Epocware (*www.epocware.com*)

Availability: Now (various languages)

Price: $25 (around £15)

Quality ★★★☆☆

Value ★★½☆☆

Smart Find

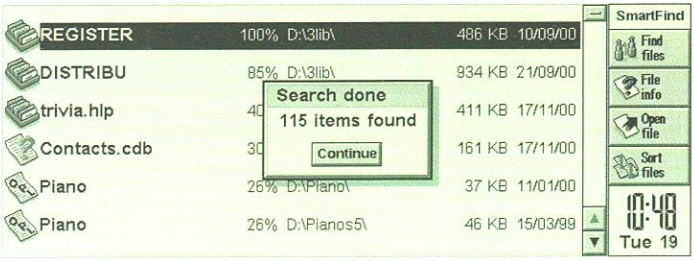
When the Series 5 was launched in 1997, finding the file you wanted in EPOC's System screen folders and files was not easy. There was nothing built into the operating system to help out and it was left to two freeware utilities, Global Find and JB5Utils, to come to the rescue. Both offered not only searches for specific filenames (or fragments of names) but also searching *within* files for long lost text phrases.

The shareware RMRFile and the commercial Navigator also appeared, with similar functions included but running at least three times faster by virtue of being written in C++ rather than OPL. Eventually even EPOC itself got in on the act in a small way, with a basic 'Find files' included on the EPOC Release 5 System screen, but still with no facility to look at the content inside files.

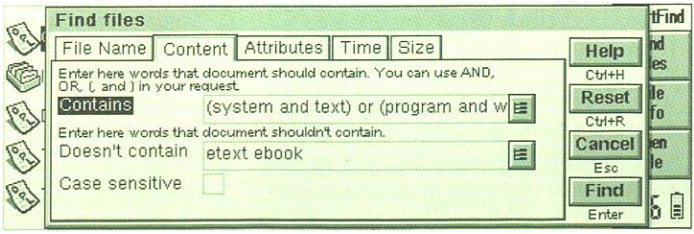
Given this history, Smart Find is late on the scene and has got a lot of competition. Fast forwarding the utility scene to the present day, with the added possibility of the smaller Revo screen size, only rules out Global Find, which was designed purely for the Series 5. All the other utility programs discussed here work fine on the Revo, focussing attention even more on what new features Smart Find can provide.

Yes, it's very slickly programmed in C++, with fast operation (as fast as RMRFile or Navigator) and an excellent help database. The main 'Find files' dialog opens conventionally enough, with options to look for any filename of any document type on any disk, and there are equally unsurprising tabs in the dialog for file attributes, time and size, completing a comprehensive set of file filters.

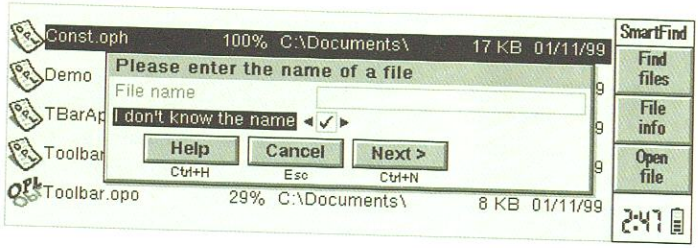
Smart Find's unique selling point is a fifth tab in the dialog, for 'Content'. Where the other utilities mentioned here can search for a specific text string, Smart Find offers full logical keyword search, along the lines of popular Internet search engines.



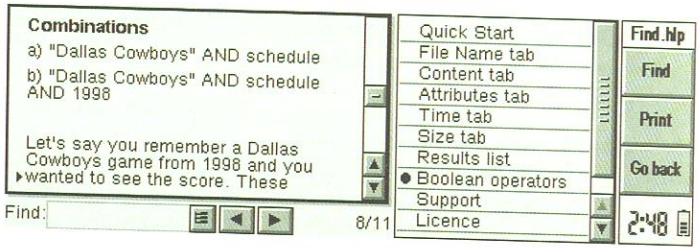
Ranked search results



Truly advanced searching facilities



Using the 'Wizard' mode



A polished help database

For example, you could look for files containing both "System AND Specification", to limit the matches returned. With the addition of parentheses, you can become even more sophisticated, looking for "System AND (Specification OR Definition)" while excluding any files which include, say, "Beta test".

Even better, the list of search results is ranked with (and can be sorted by) a percentage score, representing the number of times your search clue(s) appeared in each item. A nice touch is the display of the correct icon for the appropriate associated application. Highlighting and then tapping again on any item opens it up in the usual way. Cleverly, Smart Find also senses when you've closed a document opened in this way and automatically brings itself to the foreground so that you can continue browsing its list.

There was one minor quirk: zooming the display behaved somewhat bizarrely on the Revo, but Smart Find was otherwise immaculately behaved. A 'Wizard' mode is also included, providing a simpler dialog just to search for a filename or plain text string.

Although some of its power is unlikely to be needed by the majority, Smart Find will be a real boon for anyone using their palmtop for serious document management.

Steve Litchfield

Smart Find

From: Epocware (*www.epocware.com*)

Availability: Now

Price: $15 (around £10)

Quality ★★★★½

Value ★★★★☆

PREVIEW

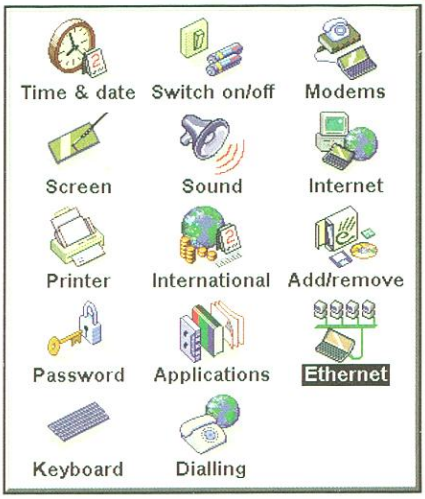
netBook Ethernet drivers (alpha)

When Psion Enterprise (now Psion Teklogix) released the netBook, the first syllable of the name seemed to be very significant. After all, what use is a computer aimed at corporate users if it can't be connected to an office network? Things weren't that simple though, and the only way the netBook could be networked initially was via a dial-up modem link or a direct connection to another (networked) computer. In that sense its networking options were no different to a Series 5mx or Revo.

Things changed recently when Psion released alpha test versions of their Ethernet drivers for the netBook. Their accompanying notes are full of dire warnings that the drivers haven't been extensively tested and that they may crash your netBook, causing data loss. However, apart from an annoying tendency to cause spontaneous soft resets from time to time, I've not noticed any really serious problems.

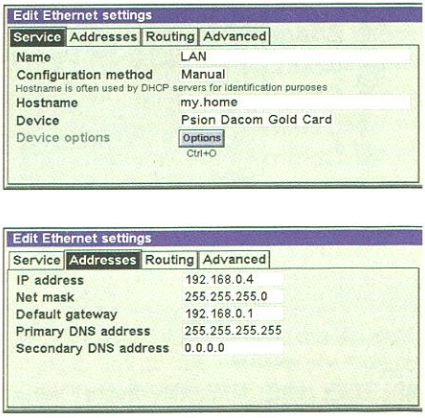
Installation produces an Ethernet applet in the Control panel, which you then need to configure. This is where it becomes important to know something about the network you're trying to connect to, such as the way that IP (Internet Protocol) addresses are assigned, the address of the gateway machine and so on. The chances are that you won't know these unless you set up the network yourself, so you'll probably need to locate someone (perhaps in your IT department) who has the required information.

Possibly the most essential tool in configuring the netBook is Ping, supplied with many operating systems, although not with the netBook. Fortunately, the freeware tool FiFinger (from *www.freepoc.de*) can be used for this purpose. The idea is that if you can 'ping' another computer, you can get diagnostic information and check that your settings are correct.

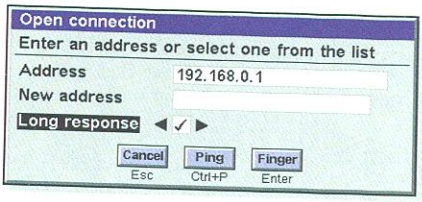


A new Control panel applet

Once set up, with your netBook connected via Ethernet to your private or corporate network, all you can do is browse the web



Setting up

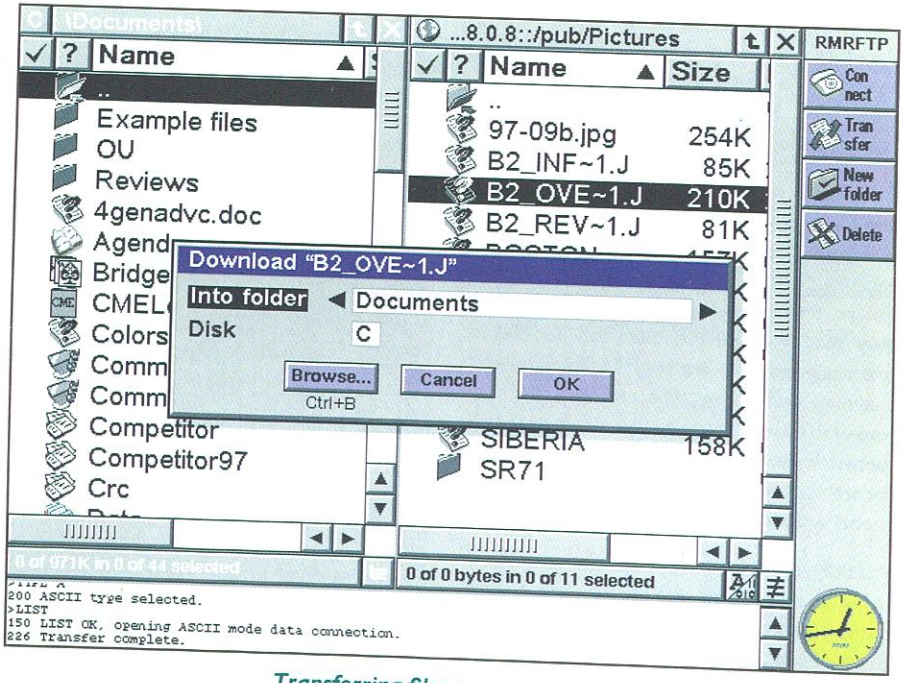


Pinging a remote computer

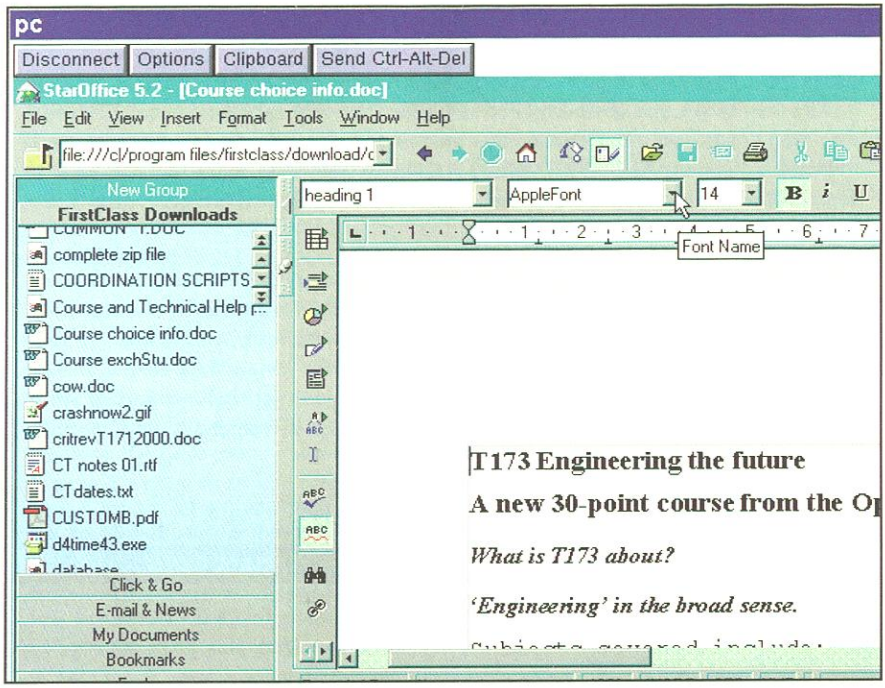
or a local Intranet by setting the proxy in Opera to the IP address of the local web server. Surprisingly, there's no support for either disk or printer sharing and hence no access to any files on any other machine on the network. Equally frustrating, there's no way to print to remote printers. It's tempting to wonder if all the development effort was worth it, as sharing resources is of course one of the prime purposes of any computer network.

All is not lost however, as there are ways and means, using third party software, to plug some of the gaps left by the Ethernet drivers. The closest you'll currently get to disk sharing (for moving files to and from the netBook via your network) is by transferring them by FTP (File Transfer Protocol). This can be set up fairly easily, by running an FTP server on the target network computer and using RMRFTP (*www.rmrsoft.com*) or nFTP (*www.neuon.com*) to control the transfers on the netBook.

An even more intriguing idea is running a Virtual Network Computer (VNC) server on the target computer and a VNC viewer



Transferring files over a network



Controlling a Windows PC via a netBook

on the netBook to take control of the former. There's no such native viewer for EPOC, but there is a Java version that can be used. Setting this up requires three components: a VNC server, the Java VNC viewer and Symbian's EShell application (to launch the viewer). All three can be obtained from *ftp://ftp.edv-himmelbauer.co.at/pub/Psion/Serie-5/Java* . The Java viewer and a more recent version of the VNC server for several platforms are also available from the downloads section of the AT&T site at *www.uk.research.att.com/vnc* .

Once the VNC server is installed on one of the network computers and configured according to the instructions on the AT&T site, the Java viewer is then launched from EShell on the netBook and connected (for example) to a Windows VNC server, by typing: "java vncviewer HOST 192.168.0.1 PORT 5900", where 192.168.0.1 is the IP address of the Windows computer. VNC servers for other platforms may use a different port number, so you'll need to check the documentation. When it's all going, you have the strange experience of appearing to run Windows on your netBook. The screenshot above shows that it is possible, but you do need to lower the screen resolution on the PC to 640x480, with 256 colours or fewer, in order to speed things up and to see more of the screen on the remote computer. Even then, the link can be too slow to do anything terribly useful, especially if anyone else is using the

What do you need?

Apart from a netBook (not a Series 7, which doesn't support the drivers) and the drivers themselves, you obviously need a PC-Card network card and a network. I used the Psion Gold Card multi-function 56k modem and 10MB Ethernet card. The documentation mentions Aironet 3500/4800 rLan cards and IrLan connections as well. It seems a little uncertain as to which cards will work though, and there's very little other guidance given.

Setting up a network connection between any two computers is often tricky. You'll need the blessing, and often the help, of your network administrator. This is especially true if you need to be allocated a fixed IP address manually, rather than relying on DHCP to assign one automatically. If most of this review and boxout makes sense to you, then you're in a good position to get your netBook connected up. If it doesn't, then you might be better off leaving things to somebody who is more technically experienced.

network at the same time. Another factor is the speed with which the Java viewer runs on the netBook—a native EPOC VNC viewer would probably be a lot better, but this doesn't exist at the moment.

Something else not yet available for the netBook is a Samba server. Samba allows Windows computers to share disks on a remote non-Windows box, and would make it easy to move files between the different platforms.

Overall, the Ethernet drivers are useful, but nowhere near as useful as they could (and should) be. The current version needs extending to improve its stability and, crucially, to add disk and printer sharing, so let's hope that all this missing functionality is added to the final release version of the drivers.

John Woodthorpe

netBook Ethernet drivers (alpha)

From: Psion Teklogix - download from *www.enterprise.psion.com/partners/download.htm*

Availability: Now

Price: FREE

Quality	N/A (pre-release)
Value	N/A (FREE)

Infrared Printer Link

If you're tired of hooking up a cable every time you want to print from your Psion then this little gizmo is for you. Powered by a single PP9 battery (supplied), it plugs into the parallel port of your printer via a metre-long cable to allow hassle-free infrared connection.

The link's tiny 5cm long receiver unit looks delightfully stylish on your desk, with the Psion logo hieroglyphics embossed into the casing and a small red LED on the top that lights up to confirm when a data transfer is in progress. Wireless printing worked happily at distances of up to around two metres.

Beware that the link comes with absolutely no documentation, which may lead novice users into thinking that it's just plug-and-play. In reality, the same printer driver compatibility issues apply (of course) as if you were printing via any other means, so make sure that your Psion and printer are compatible *before* purchasing the link. It's a safe bet that if your printer works with a conventional cable connection, it will also work just fine with the Infrared Print Link.

Steve Clack

Infrared Printer Link

From: Major Psion Dealers

Availability: Now

Price: £50 inc. VAT

Quality ★★★★½

Value ★★★☆☆

ps-scribe Revo pointer

Granted, there's not too much you can say about a mere stylus, but the ps-scribe pointer has to be the classiest accessory you can buy for your Revo. The body of the stylus has a weighty polished zinc body, with a non-scratch conventional plastic tip. With precisely the same dimensions as the standard Revo pointer it fits happily into the storage slot on the side of the palmtop, and weighing more than ten times as much as the flimsy plastic alternative it's infinitely more pleasant to use.

If you want a stylish and practical Revo pointer that's almost indestructible then the ps-scribe is the perfect choice. Maybe Psion should include them as standard?

Steve Clack

ps-scribe Revo pointer

From: ps-theresmore (see page 132)

Availability: Now

Price: £10 inc. VAT

Quality ★★★★½

Value ★★★☆☆

Palm-Tec Solid brass pointers

If you prefer something a little heavier than the standard Series 5, 5mx, Series 7, netBook or Ericsson MC218 stylus then try one of Palm-Tec's plated solid brass alternatives. At around 25g each they're certainly solid and fit right into the standard slot, just like the ps-scribe.

Depending upon your personal preference and budget, the stylus is available in either nickel chrome or 22 carat gold plated finish (at £14 and £30 respectively), both of which are highly polished.

These quality styli add a touch of class to your organiser and, as with the ps-scribe, they make an excellent gift.

Steve Clack

Palm-Tec Solid brass pointers

From: Palm-Tec (see page 122)

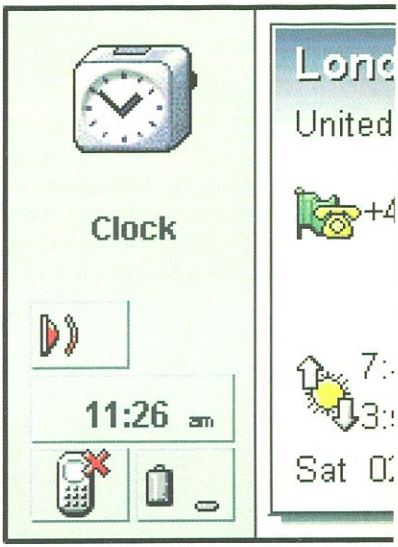
Availability: Now

Price: £14 / £30 inc. VAT

Quality ★★★★½

Value ★★★☆☆

The shape of things to come



Steve Litchfield previews the next generation of Psion, EPOC and Symbian palmtops

Crystal is the code name for the next generation palmtop software design from what used to be Psion Software, and forms part of the EPOC Release 6 family. Almost certainly, the operating system in the palmtop you buy in six months time will be based upon it.

In order to appreciate how all the pieces of Crystal are coming together, it's important to understand the differences between the various names and players. Psion Software became Symbian when they invited teams from Nokia, Ericsson, Motorola and other companies on board as licensees, to help them design the mobile connectivity software of the future. In terms of company size and resources, both Psion Computers and Psion Software were relatively small fry on the world stage—but the combined might and international presence of Symbian has both Microsoft and Palm worried.

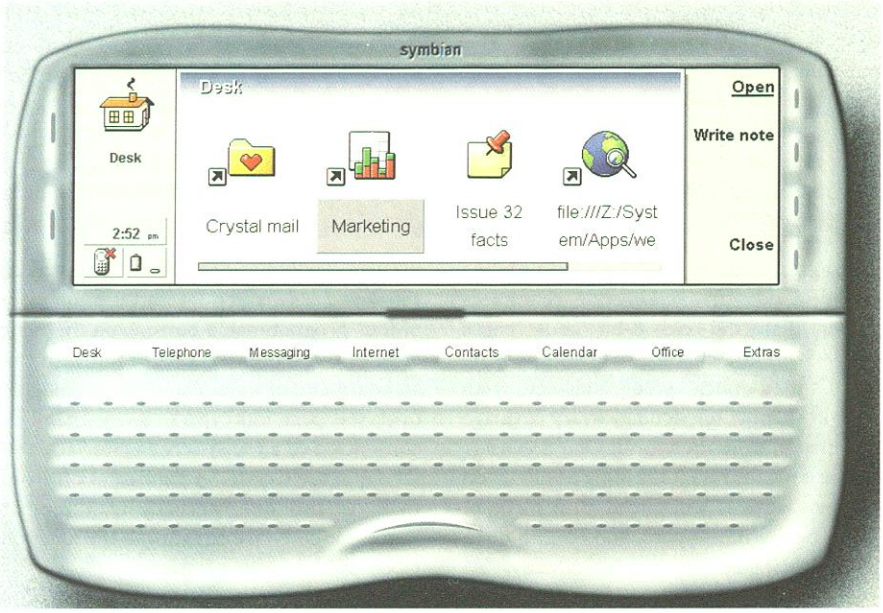
EPOC will still exist and be at the heart of everything Symbian designs, but it's gradually being referred to less and less in official circles, in favour of the single brand and company name of Symbian.

Psion and the future

And what of Psion Computers, makers of the palmtops we've bought, loved and lost over the years? They're now simply another licensee of the Symbian software platform, albeit still an important one. Whether or not we see evolutions of the Revo and Series 5mx (both running EPOC Release 5) in the near future, it's a good bet that Psion Computers will be launching their own version of the next generation communicator. Nokia has already preannounced theirs, the 9210, pictured over the page, although they have said it's unlikely to be widely available before the summer of 2001.

I'd expect a first Crystal offering from Psion to follow a similar time frame.

Although both of the above will be based on the Crystal reference design previewed here, Symbian actively encourage each licensee to differentiate their product by tweaking the interface to fit individual corporate visions and by adding extra, custom applications. The finished products which appear in the shops may thus appear significantly different from the layouts below. Nevertheless, it's still possible to gain a good glimpse of both the specifics and overall scope of the Crystal generation. Above all, it lends hope for the future, as an 'upgrade' path for current Psion palmtop owners and as a set of convincing products that will help spread the Symbian name across the globe.



Exploring the Crystal reference software using the WINS 'emulator'. Notice also the Windows-styled desktop

Having tried out a prototype Nokia 9210 and having explored the Crystal software in depth, the good news for anyone familiar with the Revo and Series 5mx is that, underneath the evolutionary changes, virtually all the EPOC Release 5 (ER5) applications and concepts remain, and existing Psion owners will very quickly feel at home. Most of the trends set in place when the Series 5 and EPOC appeared (for example, simplifying the interface of many applications and improving connectivity with the outside world) have been taken to the next logical level. Series 3 this isn't, but it's easy to see how they arrived here.

New under the hood

No doubt you'll already have been scanning the screenshots on these pages, picking out some of the more obvious changes, but it's just as important to understand those that have taken place 'under the hood' in EPOC Release 6 (ER6). As a baseline for what's new, I'll take ER5, as used in the Revo, Series 5mx and compatibles. Also, bear in mind that the majority of these changes also apply to the forthcoming Quartz devices (see our in-depth feature in issue 29), should you prefer the 'tablet' form factor and keyboardless interface.

Obviously, there's now full support for 'integrated wireless telephony', a Symbian phrase which refers to devices having both

computer and telephone functionality in a single-processor seamless device. The operating system understands both Bluetooth and WAP and can handle full-strength encryption and certificate management when interacting with secure Internet sites, all without any additional third party software whatsoever.

In a future-proofing and location-proofing bid, ER6 uses 16-bit Unicode characters rather than the old 8-bit code pages (e.g. ASCII) and characters. This opens up EPOC to a much wider audience, with built-in support for virtually every language and character in the world. One downside is that it means no ER5 software will run on the new devices without at least recompilation by the developers, and no ER5 document or data files can be used directly.

Java's now built-in, as you'd expect after all this time, with implementations of PersonalJava 3.01 and JavaPhone 1.0, and with significantly enhanced performance. There's also a dedicated 'media server', with support for several audio and image formats. This is based around an extensible plug-in architecture, so that new 'codecs' can be added by licensees or third parties, to deal with new file formats.

Symbian also promise built-in support for GPRS-based packet data (effectively 'always-on' mobile Internet) with EPOC Release 6.1, due out at around the same time as the Nokia 9210.

Hands on

Of course, for most of us the most interesting aspect of a new software platform is the set of front-end applications, the productivity programs in which we spend our time.

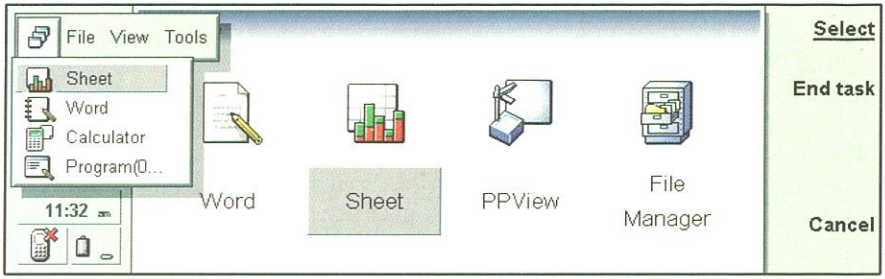
Before going further you should note again that the software being previewed here is from the baseline Crystal reference design only, and that with Nokia being such a major partner in Symbian (and also the first to launch a Crystal product), some of Nokia's own interface preferences have been implemented as the default (for now, at least).

In particular, Nokia don't seem to like touch-sensitive screens and instead use an array of four programmable buttons on the right edge of the screen in conjunction with the standard cursor keys. Psion, as we've seen over the past four years, are very much committed to a touch-screen interface and I'd expect a Crystal implementation from them to use one, perhaps with toolbar buttons in software equating to the function labels of Nokia's four buttons.

Whichever manufacturer's implementation you end up using, an application bar of some kind along the bottom of the screen or the top of the keyboard is an essential component of Crystal, just as it has been for every Psion palmtop since the Series 3 'Classic'. In the reference design at least, these are labelled 'Desk', 'Telephone', 'Messaging', 'Internet', Contacts', Calendar', 'Office' and 'Extras'.

Desk

Although it's tempting to think of this as Crystal's equivalent to ER5's System screen, a much better analogy would be the Windows or Macintosh desktop, onto which you can put shortcuts to applications and files. These are implemented via 'Add to Desk' commands in many of the Crystal applications. A 'Write note' function allows you to stick up a simulated yellow Post-It note, for reminders and odd snippets of

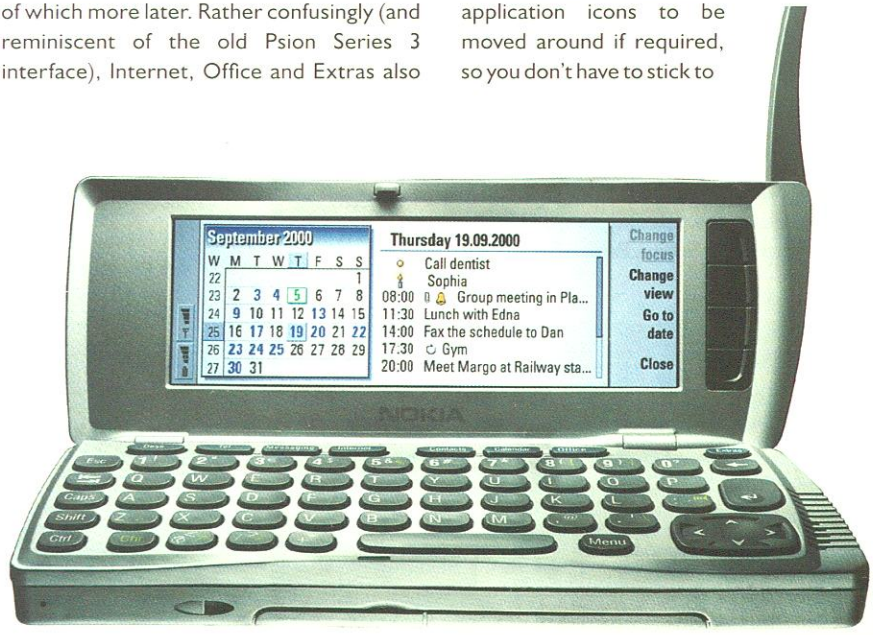


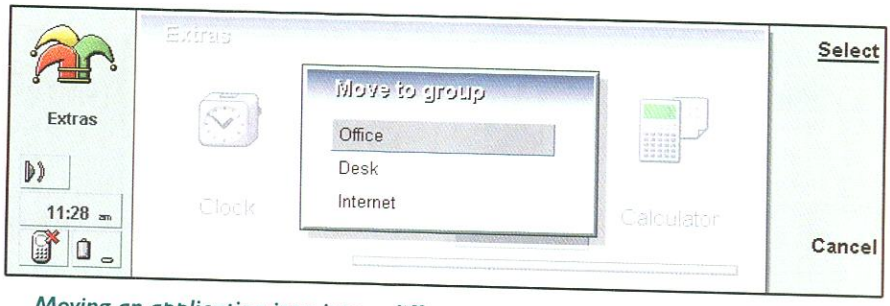
The Office application group, with the standard 'Open files' list showing at left

text which can later be copied to the clipboard and pasted in elsewhere. As items are added to Desk, a scrollbar appears when necessary. More usefully, using 'Zoom out' shrinks both icon and text to allow a dozen or so shortcuts or notes on the desktop with no need to scroll.

Like ER5's System screen, Desk is also a good place to access Crystal's Control Panel, of which more later. Rather confusingly (and reminiscent of the old Psion Series 3 interface), Internet, Office and Extras also offer some of Desk's format and functionality (including Control Panel access), and are effectively application (icon) groups. Thus Internet comprises (by default) Telnet, Terminal, Web and WAP, and Office contains Word, Sheet, PPView and File Manager. We'll leave Extras for now.

Menu commands on any of these desktop screens allow application icons to be moved around if required, so you don't have to stick to





Moving an application icon into a different group

the standard Symbian allocations. Third party software can be moved in and out as well, if appropriate.

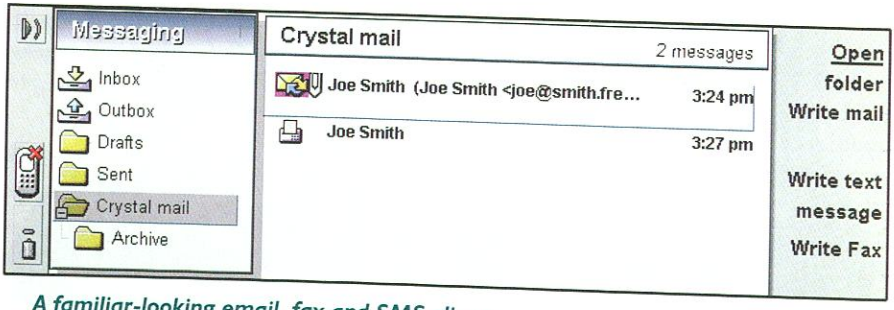
A status bar on the left of the desktop (and indeed most of the Crystal applications, although it can usually be turned off in places where more screen real estate is needed) shows time, network and battery status. Replacing ER5's 'Open files' list is a similar drop-down pick-list tacked onto the left of the menu cards in every Crystal application.

Telephone

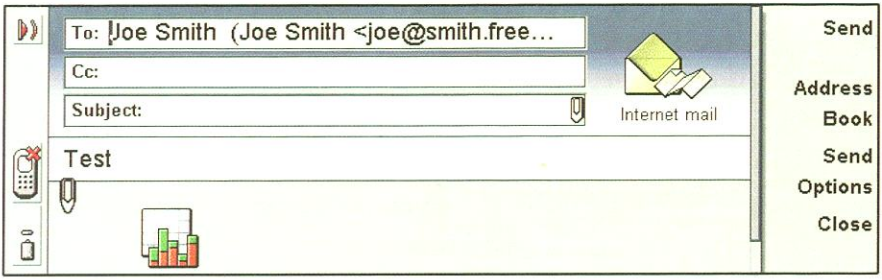
This section is left unused in the Crystal reference design, as it is up to each communicator manufacturer (including Psion) to include the custom telephone software of their choice, tying in with the telephony support built into the ER6 operating system.

Messaging

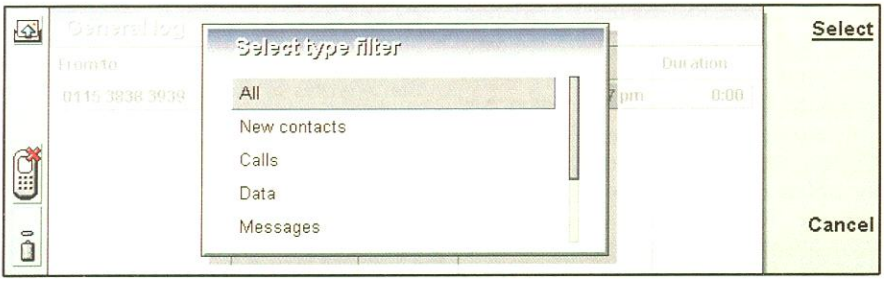
Essentially a more tightly integrated version of ER5's Email client, Messaging offers a number of enhancements. There's full support for as many folders and sub-folders as you like, letting you classify incoming messages far more satisfactorily. Most items in Crystal applications can now be sent as an email (as an attachment, if appropriate), fax or SMS message. Although common sense forbids a few of the weirder combinations, it's handy being able to enter information in an application and worry about where and how to send it at a later date.



A familiar-looking email, fax and SMS client



Sending an email with attached Excel spreadsheet

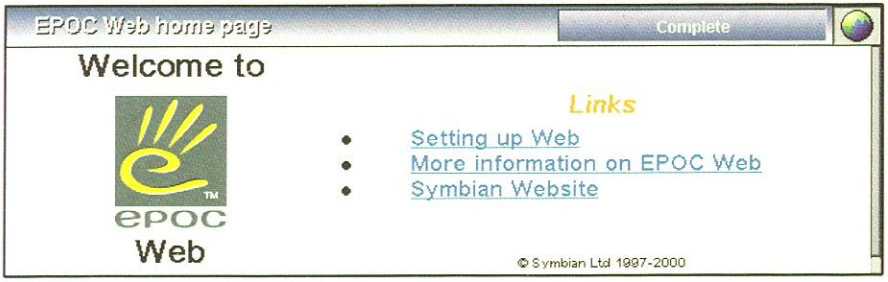


Filtering through incoming and outgoing calls and messages in Crystal's Log

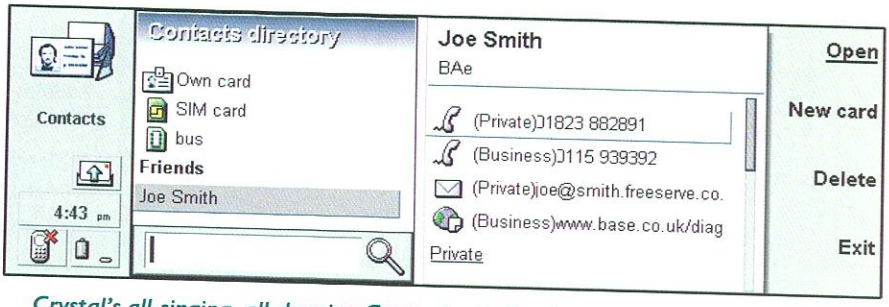
All messages sent (or calls made, from the telephone facility) are logged in a 'General log', which can be filtered extensively by direction or type. The length of the log (i.e. the number of entries in it) can be set and items then filter through on a first-in, first-out basis.

Internet

Web is almost identical to that in ER5, although with all the underlying operating system additions (encryption, security certificates, Java, etc.) it's considerably more usable on the Crystal communicator.



Old Web, new usability, thanks to enhancements 'under the hood'



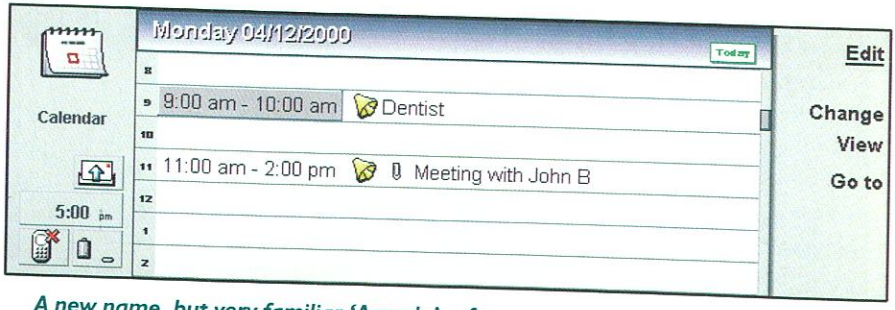
Crystal's all-singing, all-dancing Contacts application

Of use to anyone needing to dial into a text-based Bulletin Board System or company mainframe, Terminal is a slimmed down version of ER5's Comms, with a 'Phone no.' dial-up dialog at its front end. As with ER5 Comms, there's unfortunately no support for ZModem, the most popular download protocol. Telnet is almost identical, apart from an Internet address dialog at its front end instead.

WAP is of course a conventional WAP browser. It's noticeably different in menu structure to the Psion-branded one for ER5, but a WAP site usually looks and behaves identically whichever program is used to access it. If WAP is new to you, see our detailed coverage across issues 30 and 31.

Contacts

The most ambitious of the Crystal application rewrites by far, Contacts in its prototype form is a potential usability nightmare. Symbian's aim is impressive enough, to integrate every contact feature that's ever been requested into one comprehensive super-application. But with (among other things) support for multiple databases, custom contact groups, your own business card, SIM card synchronization, contact templates, contact card pictures and VIP groups, honing Contacts into something that's easily understandable by the layperson is likely to be a major challenge for Symbian and its licensees.



A new name, but very familiar 'Agenda' software

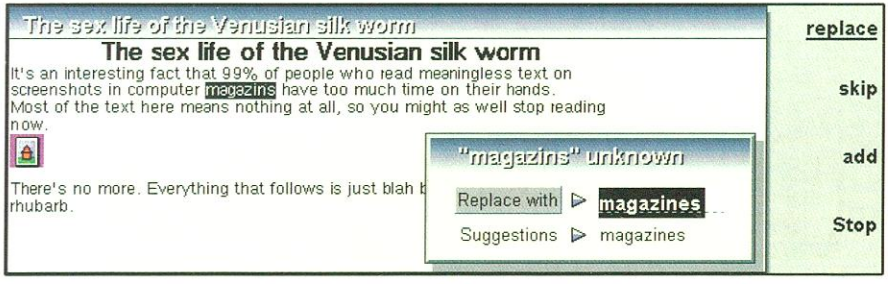
Calendar's new Month view

Calendar

Despite the name change and facelift, this is essentially ER5's Agenda as we know and love it. The Busy view is now called 'Week planner' and there's a new 'Month' view, shown above.

Office

Word is also substantially unchanged, as you might expect, being logically positioned well away from the communicator side of Crystal. All the ER5 extras, such as the style-driven Outline, are present, plus a new


The sex life of the Venusian silk worm
The sex life of the Venusian silk worm
It's an interesting fact that 99% of people who read meaningless text on screenshots in computer magazins have too much time on their hands.
Most of the text here means nothing at all, so you might as well stop reading now.
There's no more. Everything that follows is just blah b
rhubarb.
"magazins" unknown
Replace with magazines
Suggestions magazines
replace
skip
add
Stop

Spell-checking in Word

The sex life of the Venusian silk worm
The sex life of the Venusian silk worm
Set zoom factor
Zoom to 50 %
My next heading
OK
Cancel

The new 'Zoom ratio' command in action

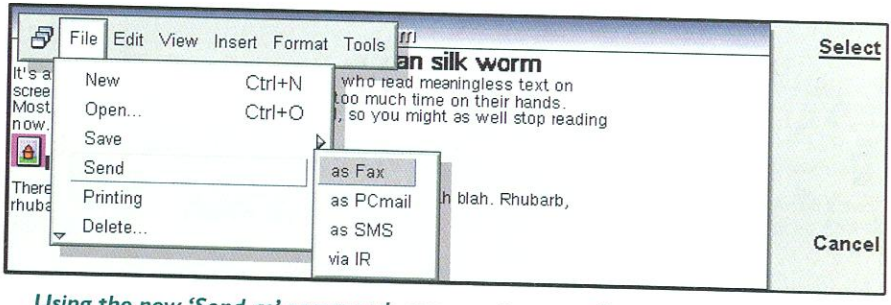
'Zoom ratio' command. Inserted objects are limited initially to Sheet or Image, the latter representing the built-in media previewer (there's no equivalent of Sketch—yet). As with ER5, any licensee or third party applications that mark themselves as 'embeddable' will also appear in the 'Insert object' list.

Intriguingly, Word can not only save documents in native EPOC format but also in Microsoft Word 95, Word 97 and Word 2000 as well, for onward attachment by email. These formats can also be opened directly, with Word detecting them automatically and doing the right thing.

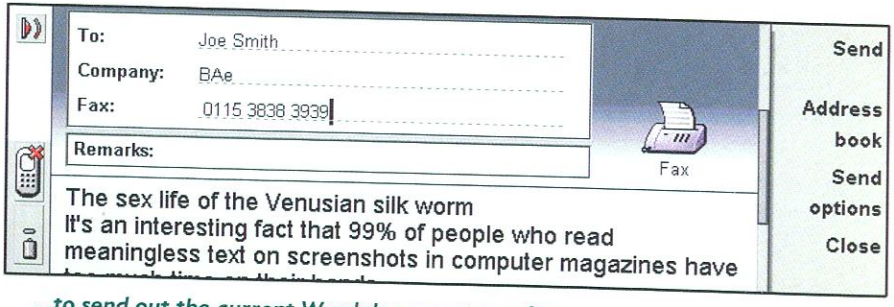
Crystal's printing system is virtually identical to that in ER5, right down to the local printer models supported, though it remains to be seen whether the glitches in the ER5 versions have finally been put to rest.

Sheet has had a lot of detailed work put into it, to bring it into line with spreadsheets on other platforms and to enable better synchronization with Microsoft Excel. There's full support for workbooks, although currently nothing on screen to allow individual worksheet selection from within one. Each component worksheet (or chart) can be renamed as needed. As with Word, there's built-in support to save and open Microsoft Office files, in this case Excel 95, 97 and 2000. A proper Find and Replace command is also very welcome, as is the same Zoom ratio feature as Word.

PPView is a player for Microsoft PowerPoint presentations and works well enough,



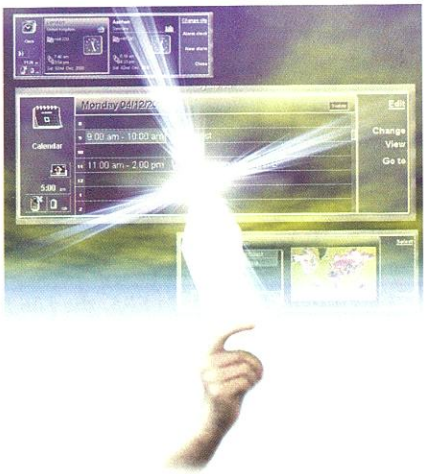
Using the new 'Send as' command, common to many Crystal applications...



...to send out the current Word document as a fax

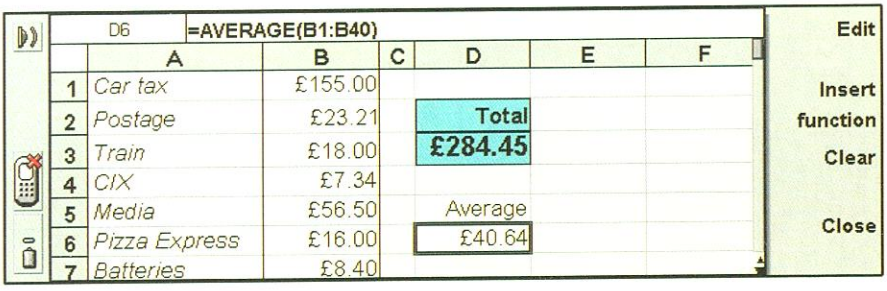
although it's slightly ironic that ER5 had a (third party) PowerPoint presentation editor which couldn't play, and ER6 has a player which can't edit!

File Manager is as you'd expect, presenting a straightforward hierarchical folder display and allowing basic file management operations on any selected content. Most interesting are the Menu commands to back up to and restore from memory cards. On production Crystal devices these will most likely be either CompactFlash or MMC.

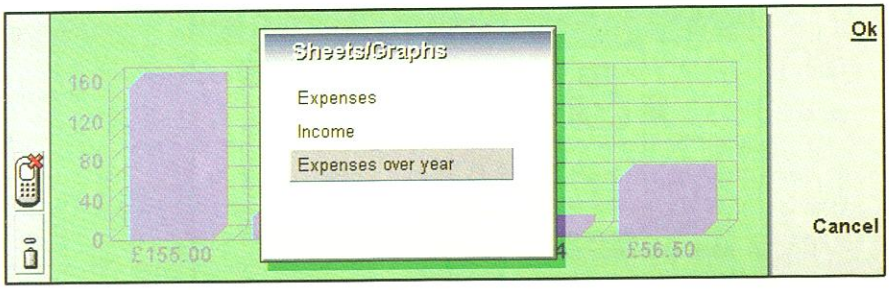


Extras

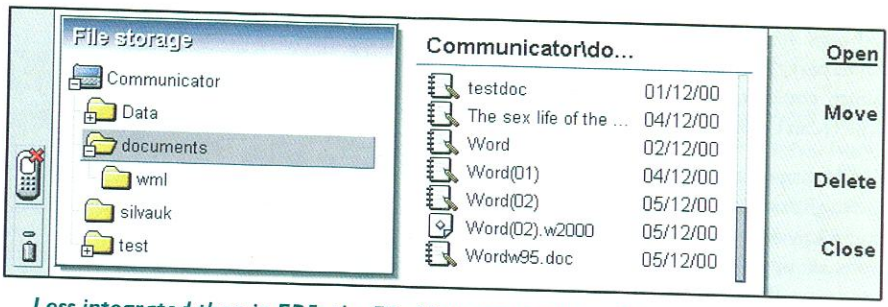
As already hinted, the content of Extras in finished communicators from licensees is likely to differ significantly from that covered



Sheet appears unchanged until...



...you note the Excel-like workbook support



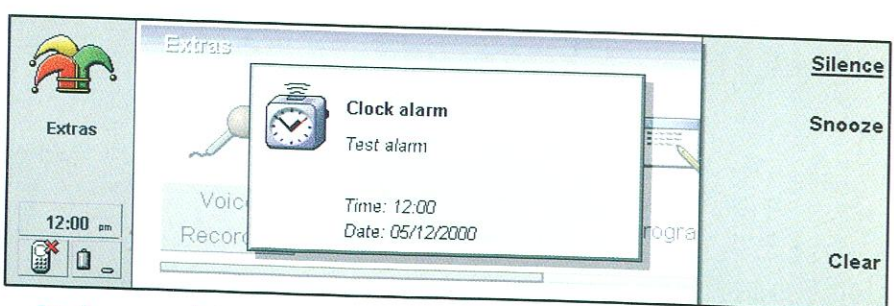
Less integrated than in ER5, the File Manager is still useful

here. In particular, expect to see digital camera utilities, location-based route planners, a PDF (Adobe Acrobat) reader and more sophisticated Internet clients. In the meantime, here's what's in Crystal's Extras so far.

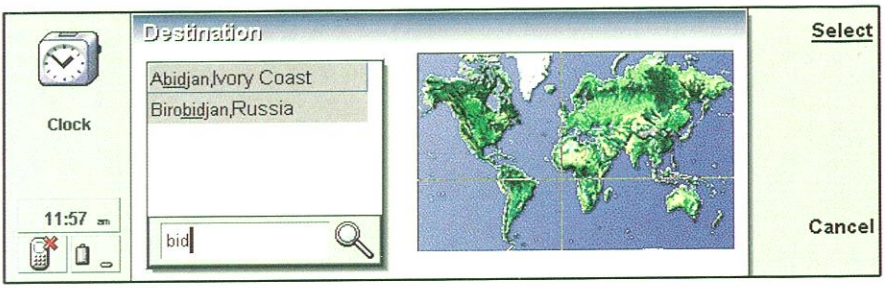
Voice Recorder will be familiar to any Series 5/5mx owner, with only cosmetic changes made here.

Clock is ER5's Time (including the World clock) with a seriously attractive facelift.

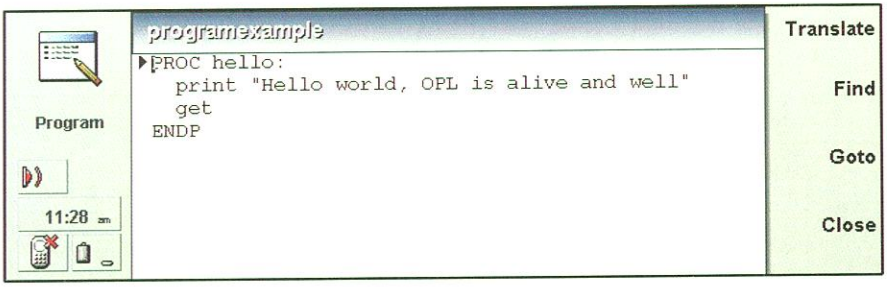
Clock is one of the most visually impressive of Crystal's face-lifted applications



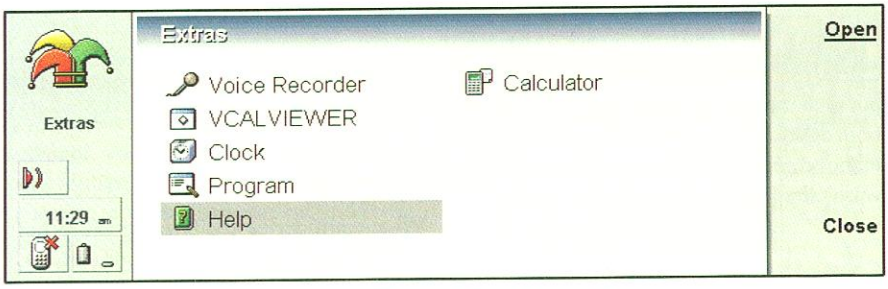
An alarm sounds in the silence



Selecting a world city



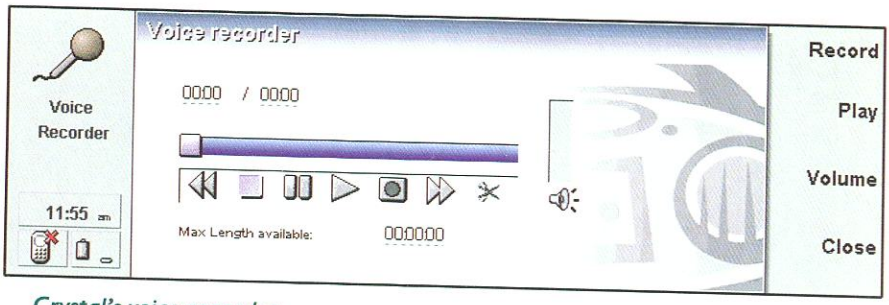
Rumours of OPL's death have been greatly exaggerated



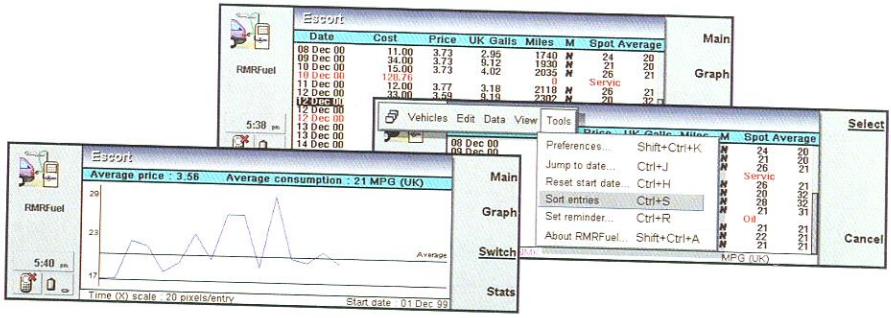
Zoomed out—plenty of room in 'Extras' for add-on software

Program is, of course, the familiar OPL, alleviating fears expressed on the Internet fora that Symbian were thinking of dropping the programming language from future EPOC releases. As with the move from SIBO to EPOC though, I suspect there will be a fair degree of source code revision needed to integrate fully into both the internals of EPOC Release 6 and its newly-styled Crystal interface.

Help will presumably take the form of a large reference database, but wasn't available for evaluation on our test system.



Crystal's voice recorder



Developers are already hard at work—a sneak preview of RMR Software's RMRFuel application, ported successfully to the new ER6 Crystal platform

Calculator is at heart the same as in ER5, but with the printer 'roll' logging available in both desk and scientific layouts. A Converter menu command beckoned enticingly but wasn't implemented on our test system.

Control Panel

At this early stage in Crystal development, this consists of 'Remote Link', 'Install/Remove', 'Infrared', 'IAPs' (Internet Service Provider setup—the 'A' is almost certainly a Symbian typo), 'Display' (contrast, brightness, auto-off), 'Date & Time', 'Certificate Manager' (needed for secure Internet transactions), 'About this product', 'Regional' (all the localisation settings of your preference) and 'Default folder'.

Early days, but...

When considering the finer details of both interface and applications, it's still early days for Crystal. Not only will Symbian tweak and improve the reference design in the next six months, but their licensees will doubtless add and remove applications and supply their own distinct touches. That said, there's plenty here to give hope for the future, that in moving to next generation hardware and software, Psion's Series 3 and Series 5 palmtop legacy is still apparent and as strong as ever.

Get connected!

Pete Sipple presents the final part of our guide to getting online successfully with your Psion computer

In the previous two instalments, we covered everything you need to set up your first connection to the Internet. In this final part of the tutorial, we look at the specific software applications that you'll be using.

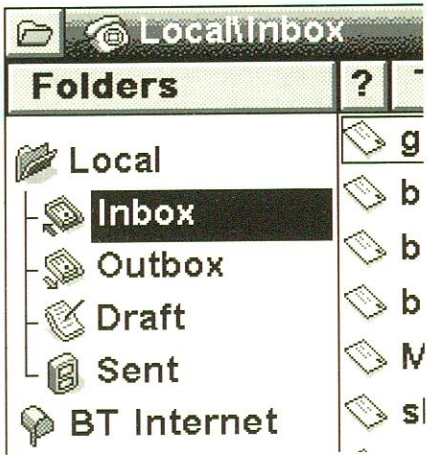
Using Email

If you followed all the advice in the last instalment, you should now have entered all the required information to enable you to connect to your email account and send your first email message. Before you get typing, let's run through some Email basics:

Folders

The built-in Email application uses the concept of an 'Inbox' and an 'Outbox'. On the left of the screen, you will see four folders. If you can't see them, select 'Show list of folders' on the 'View' menu. These folders store various categories of email:

Inbox - this is where your new (incoming) email messages will be stored.



Outbox - messages you've written (i.e. outgoing) will be stored here, waiting to be sent when you are next connected.

Draft - if you are halfway through typing a message, you can save it here (to return to later), before finally moving it to the Outbox when done.

Sent - by default, copies of messages that you have written and sent will be placed here, for your future reference.

Working offline

All of your messages are stored 'offline', which means that you don't actually send new messages or check for incoming ones until you are next online (connected). When you do get online, you 'transfer' your outgoing messages to your ISP's mail server and collect any incoming messages that are waiting for you. This helps to keep your telephone call costs down, by only needing to be online for the short while needed to do the transfer.

Addressing

When typing in an email address, you must get it *exactly* right, or it will be 'bounced' back to you by the recipient's ISP. There are some specific rules regarding how email addresses should be typed:

- An email address must not contain any spaces, and is normally written in lower case. Even if somebody gives you an email address that contains upper case (capital) letters, you can safely convert them to all lowercase instead.
- There must be an '@' symbol (pronounced, and meaning, 'at') somewhere in the address. It is impossible to have a working email address that does not contain this.
- There must be no punctuation at the end of the address, including no period (full stop).
- The address must not contain any commas, colons, brackets, quotation marks or any other punctuation.
- Valid addresses look like this: *info@palmtop.co.uk* , *help@msn.com* or *petesipple@aol.com* .

Return address

When you set up your email account details, you would have been asked to enter your own email address. When you send an email later, this return address is quoted automatically in the header of each message so that people will know how to reply to you.

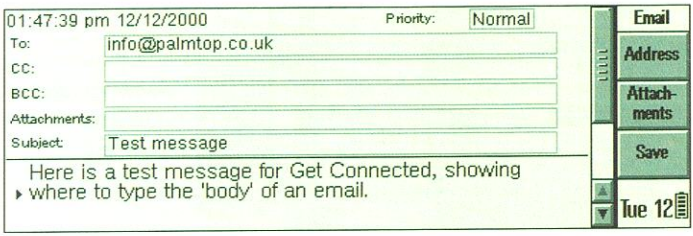
Sending your first email

Now that we have covered the basics, you can send your first email.

Ask a colleague or friend for their email address and use them as your guinea pig for your first message.

Another good way of testing your email setup is to send a message to yourself. The message should normally get back to you within a few minutes, as it's only being sent on a short 'virtual' journey. If the message gets back to you, then all is well. If not, you need to check through your mail settings supplied by your provider (see issue 31, page 64).

Here's the procedure for composing your first email message:



Composing an email on a Revo

- On the main Email screen, tap the 'New' toolbar button.
- Select 'Email' from the pop-up list.
- You should now be at a screen that allows you to type in a new message. Move to the 'To:' line, and type in the recipient's email address, e.g. "joesmith@ispname.com".
- In the 'Subject:' field, put a short description, e.g. "Test message".
- Type the body of your message into the large blank box.
- When you've finished, tap the 'Save to outbox' button on the toolbar (or 'Save', then 'Save to outbox' on a Revo).

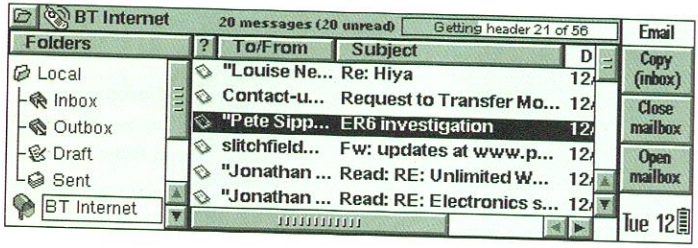
On the left of your screen is the folder list. Tap on the 'Outbox' folder and you should see your message waiting to be sent. Now tap the 'Send' button on the toolbar and send your email. You should now be connected to the Internet and your message(s) will be delivered. Once done, you'll typically collect waiting messages (see below) and then disconnect, to save your phone bill.

Hint - there are some conventions used when writing an email message—this is referred to as 'Netiquette'. See our explanation on issue 29, page 63.

Collecting your email

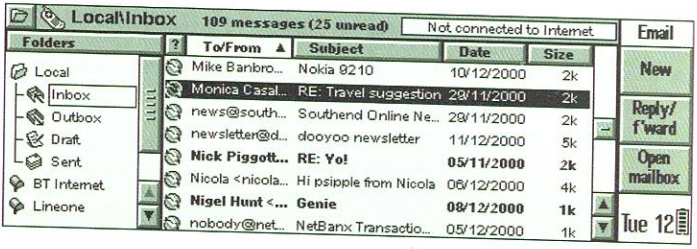
Here's how to collect all your incoming email messages:

- On the toolbar in the Email application, tap on the 'Open mailbox' button.
- If not already connected to the Internet, your Psion should now dial up and establish a connection. Once online, Email will query your ISP's mail server to see what new messages are waiting for collection. It will then download a list of 'headers' summarising the subject of each message, who sent it, and when.
- Before you can read the messages, you have to copy them from the mail server onto your palmtop. Remember, all you've seen so far are summaries of their headers. You can choose to leave the messages on your ISP's mail server and just take a copy (handy if you access your email from your PC too), or you can remove them from the server altogether once they're on your Psion. Hold down the [Ctrl] key and tap on the message(s) you want to read, highlighting them.
- On the toolbar, tap on 'Copy (inbox)' or, from the 'Transfer' menu, select either 'Copy to inbox' or 'Move to inbox', as needed.



Downloading message headers

Messages in bold indicate that they haven't been opened by you yet

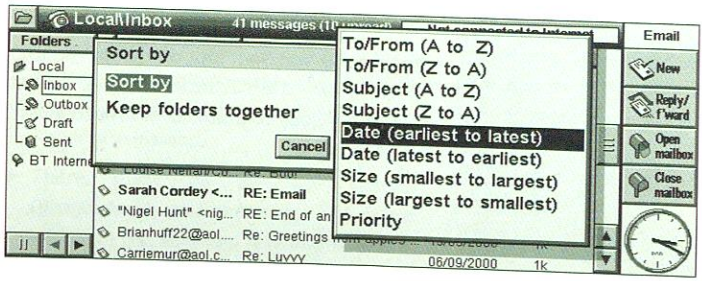


- Once the messages have been transferred, you may wish to 'Disconnect from Internet', unless you plan to stay online and browse the web as well.
- Tap on your 'Inbox' to see the list of email transferred and waiting to be read.
- Double-tap on any item that you wish to read.

Email hints

Once you're familiar with the way Email works, you may wish to read our 'Email in depth' feature in issues 27 to 29 of Palmtop, for hints on streamlining the way you work with messages. Here are a few brief pointers to bear in mind though:

- Remember to keep your folders tidy. The 'Sent' folder is the first candidate for a periodic clear out.
- When viewing the content of your folders, try zooming out to see more on-screen—with lots of messages, it really makes a difference.
- Experiment with 'sorting' your emails, either by 'Date' (received), by 'Size' (of message plus attachment), or by 'To/From'. To do this, use 'Tools | Sort by'.



Get it sorted!

The EPOC Email application is very powerful, also allowing you to manage fax and SMS messages (see below), as well as 'synchronizing' messages to your Windows PC using PsiWin. Again, refer to our previous 'Email in depth' article to get the most from Email.

Web browsing

As we touched on last time, there are two software applications to consider if you want to surf the World Wide Web from your Psion: Symbian's Web or the more powerful third party Opera browser. The functionality of the latter makes it the best choice for the serious surfer, but as Web is free and supplied with all EPOC machines we will only be looking at Web here. Once you become more proficient with your Internet connectivity, try reading our Opera reviews in issues 28 and 30 to get a feel for how much you might benefit from its extra features and speed.

Opera for EPOC can be downloaded from *www.opera.com*, and can also be found on the Palmtop CD. Revo Plus owners should note that a pre-registered version of Opera is included on your PsiWin CD.

Fortunately, Web does not require any time consuming configuration once you've got your email account(s) set up, and it should be a simple case of opening up the application and typing in a web address (or URL, as it's more technically known). To get to the Palmtop magazine web site, type the address of "www.palmtop.co.uk" into the location line (usually at the bottom of the screen) and press [Enter]. Web should then dial the Internet, connect and start to download the web page.

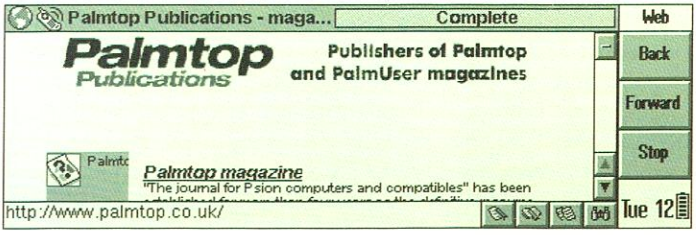
By scrolling up and down the page, you'll find links to other web pages. Links come in several forms, most commonly as a button (actually an image that you can tap on) or an underlined word or phrase. By tapping on a link once, to highlight it, you will see that a message appears in the top right-hand corner of the screen telling you where that link will take you. Tap again (or double-tap if you haven't already highlighted the required link) and you'll be taken to that page.

Once you've had a good look around our site, follow some of the links on our 'Hotlinks' page. This contains a list of other Psion-related web sites. You might also like to type in some of the URLs listed in the EPOC reference yellow pages at the back of each magazine.

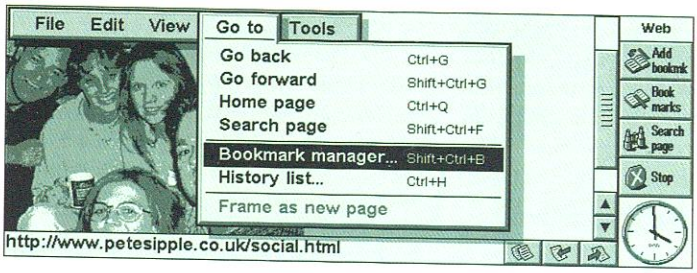
Tips

Here are a few tips for happy surfing:

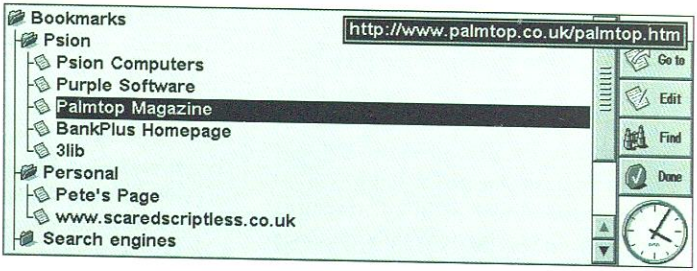
- **Navigation** - the 'Go to' menu, the toolbar and the navigation buttons next to the location field are all there to aid your navigation around the set of web



Browsing the Palmtop Publications web site on a Revo



Navigating with 'Go to'



Managing your bookmarks

pages that you have most recently visited. Take time to explore these for a better browsing experience.

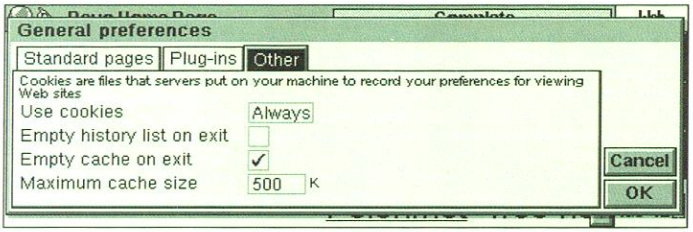
- **Bookmarks** - if you find a page you like, 'Bookmark' it before you go any further. Bookmarks allow you to go back to a favourite page without having to type in the whole address again. To bookmark a page, press [Ctrl]+[B], or select 'Add bookmark' from the 'Edit' menu. Use the 'Bookmark manager' from the 'Go to' menu to select a bookmark or to rearrange your bookmarks into a more logical order.

- **Save it** - if you've found an interesting page with lots of text, don't forget that you're usually paying for your online time while reading it. You should either save the page to your palmtop or simply 'Disconnect' if you're going to be staying on the same page for more than a minute or two (reconnecting when ready to move on).

- **Make it fast** - from the 'Tools' menu, select 'Display preferences', then disable animations and reduce the colours to '4 grey'. Web sites will look slightly less impressive but you'll move around faster.

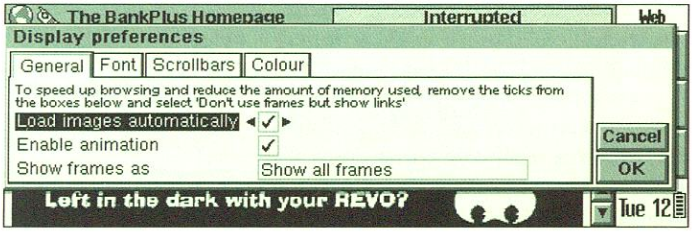
- **Make it faster still** - another cost-saving measure is to turn the images off altogether. Web pages will probably look much less impressive and some may be almost unusable without the graphics, but new pages will load a lot more quickly. Experiment with working 'image-free', and remember that there is a 'Load all images' command ([Ctrl]+[I]) if you want to override this setting to check out the current page's images.

- **Cache** - web browsers make use of a 'cache' to store images and pages in a hidden location so they don't need to download again if you ask to see them again soon after your initial viewing. This can greatly speed up surfing to sites that you have visited before. Using a cache



Cache controls

Speeding up your surfing



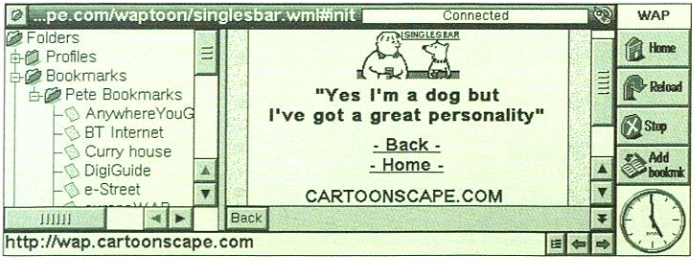
has a disadvantage though, as the cached files all take up memory space. if you are running low, you may wish to alter your cache settings or even empty the cache altogether. The controls for this are hidden under the 'Other' tab of the 'General preferences' dialog.

WAP

Unless you've been living in a cave, you are probably aware of the current hype generated by WAP, or the 'Mobile Internet'. WAP is a method of accessing web-like content over the Internet in a format that is fast and better optimised for small devices such as mobile phones and handheld computers. Psion released their browser some months back (see our review in issue 30).

Setting up WAP is more complicated than Web, as it makes use of a special 'gateway' (see 'A brief introduction to WAP' in issue 29 for a full explanation). The Psion WAP browser comes with a built-in 'profile' that you can use to connect without having to type in lots of technical information. For beginners, this profile is more than sufficient.

If you have a Revo Plus, the WAP browser can be found on your PsiWin CD, but if not then you can purchase a copy



WAP in action

Shopping with WAP

via *www.psion.com*. After installation, tapping on the PsionWAP profile will connect you to the PsionWAP site and give you access to a host of links to services and information. There is much less material available in the WAP world than you can access over the web, but you may be pleasantly surprised by the speed of WAP browsing on your Psion.

Troubleshooting

Connecting to the Internet can sometimes be frustrating, there are many factors that can hinder good connection. An unhelpful ISP, engaged signals, a noisy phone line or a quirky modem can all conspire to make your surfing hard work.

If you're having problems connecting, it can be difficult to know where to start. Below is a list of possible solutions to try when things don't go as planned:

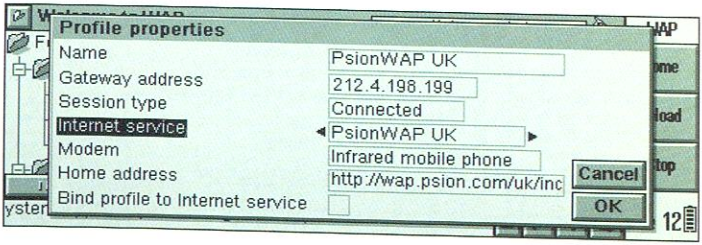
Can't connect?

If you're having problems getting connected, check your modem setup. The default options should be enough to get you connected, but if not then go to the System screen, select 'Control panel' and edit your modem settings directly. You can try to reduce your connection speed (e.g. from 57,600 to 19,200 baud) to see if things improve.

Other settings worth looking at can be found under the 'Modems | Advanced' tab. Modems *should* work fine with the defaults, but a little experimentation with the 'Flow control', 'Terminal detect' and 'Carrier detect' settings can often resolve problems. Remember also to make sure that your remote link is switched off ([Ctrl]+[L]) on the System screen.

If connecting via a mobile phone, ensure that its infrared port is turned on. Ensure also that your SIM card has been data-enabled by phoning your network opera-

Setting up WAP the hard way



Advanced modem settings

tor's customer care team. If using a 5mx and a mobile phone, installing the Series 5mx Mobile Connectivity Update v1.1 may resolve problems. This is available for download from *www.psion.com/downloads/series5_index.asp* .

If you are having problems connecting with a modem other than a mobile phone or dedicated Psion Travel Modem, you may have a faulty cable or you may not be using our old friend, the null-modem adaptor. Refer back to the first part of this series in issue 30 for more details.

Log-on problems?

If you're having problems at the authentication stage, i.e. the modems 'handshake' successfully and their speaker turns off but then things fail while trying to log into your ISP, this is most likely related to a problem with your username, password or service provider settings. Check all of your details

Diagnostic logs

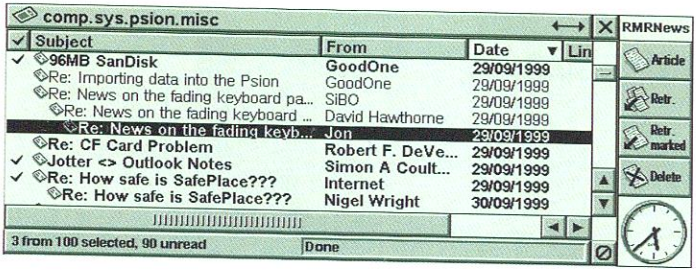
If you are having problems making the connection, accessing a plain text activity log can often be very helpful. EPOC Release 5 allows you to create such logs as follows:

1. Go to the root folder on your C: disk on the System screen and use [Shift]+[Fn]+[N] to create a new folder.
2. Name this folder as 'Logs'.
3. Double-tap on this new folder and then create a new folder within the Logs folder called 'Etel'.

You should now have created a folder with a path of 'C:\Logs\Etel'. Diagnostic text files will be written here when you try to make a connection. Opening these files by double-tapping them or by importing them into Word will allow you to see each step of the logon process and may highlight where the connection failed.

Creating a folder called 'Email' inside the 'Logs' folder (e.g. 'C:\Logs\Email') will generate some useful files relating to your email session.

See issue 27, page 74 for more on these log files.



Accessing Usenet newsgroups using RMRNews

carefully (see issue 31's instalment), and don't be afraid to call your ISP's help desk if you're really stuck. Setting your connection to 'Manual login' ('Control panel | Internet | Edit | Account') can help, as this will prove whether it's your user details that are incorrect. Failing that, try creating a diagnostic log (see the boxout on previous page).

Losing connection?

As detailed above, if you're frequently losing your connection then try a slower connection speed, as you may be 'talking' too fast for the network to keep up. It can also be that there is congestion on the 'Net or at your ISP. If using a modem when connecting at home, it may be that a 'Call Waiting' notification is disrupting your call, or maybe that someone has picked up an extension phone, confusing your connection. If you are using a mobile phone with infrared, maybe you're in an area of poor coverage—data calls are less tolerant of bad signals than voice calls. Check also that nothing is blocking the infrared path. An optimum distance for most occasions is around 10cm.

What's next?

If you've made it online, you'll be able to send email and browse the web. Here are a few other things to try:

Searching. From a web browser, try one of the search engines. These will allow you to search the whole World Wide Web for specific keywords. For example *www.google.com* is a fast search engine that works well on a Psion palmtop. Type in a word and wait for the results. Whatever your interest, there are millions of pages out there for you.

Newsgroups. There are thousands of Psion users out there, discussing software and hardware right now. Many use Usenet, a huge collection of newsgroups, to post questions or look for answers. We mentioned some software, RMRNews, back in issue 26 that allows you to download messages from UseNet and compose and post replies. See *www.rmrsoft.com* for more details. Failing that, you can still search, read and post on UseNet with just a web browser, via *www.deja.com/usenet* . Go to this address and search for *comp.sys.psion.misc*, or just try searching for a Psion subject, such as "EPOC". Once you've found your way around, talk to other users and look out for tips.

Working for a living:

The Pilot

Robin Creffield gives a glimpse into how a Psion Revo fits into his Boeing 757's flight deck

My use of palmtops started recently, not long after my career as a commercial airline pilot began, when I bought a Psion Revo in a Duty Free shop. Being a naturally disorganised person as well as a practicing technophile, suddenly faced with a change in location, lifestyle and responsibility, an electronic organiser seemed like the perfect solution.

The pilot's life is very different to that of a typical office worker. We don't hold meetings, we don't produce reports, we don't do any filing and once airborne we operate largely independently.

The restrictions that come with being an airline pilot are:

- Space is very limited in the 'office'—there are no desks or filing cabinets.
- Everything you wish to use must be carried with you, in a small bag.
- Mobile phones are banned while at work (and wouldn't work anyway).
- You don't often get home from the 'office' after a day's work.
- There are no mains power sockets on the flight deck.

It is rare that one flies with the same crew from one day to the next. A large part of the day-to-day business of a commercial airline pilot is organised elsewhere in the company, by staff employed specifically for that purpose, thus negating the need for much time-management software. The main uses for my Revo are keeping my logbook up-to-date and organising the rest of my life around the airline duty roster.

Logbook

The logbook is possibly the most important document, licence aside, that any pilot owns. It is also one of the most tedious and difficult things to fill in correctly. When travelling through different timezones and at different times of night and day, calculating the hours flown in light or darkness, as well as the operating capacity of the pilot in question, combined with conforming to all the statutory and company restrictions on flying duty, means a simple spreadsheet is often insufficient. That said, before obtaining bespoke logbook software I used **Sheet** to keep a basic logbook going, the advantage being that, once converted (using PsiWin) into Excel 97 format, importing

Date	AIRCRAFT		Commander	Capacity	Journey or Nature of Flight		Departure	A
	Type	Registration			From	To		
14/08/00	B757-200	G-REVO	ELCOCK	P1	EGKK	LLBG	15:45	1
15/08/00	B757-200	G-REVO	ELCOCK	P2	LLBG	EGKK	09:25	1
04/12/00	LJ1498	G-PALM	MEHMET	P1	EGKK	CZNL	10:00	1
05/12/00	LJ1498	G-PALM	MEHMET	P2	CZNL	EGHH	12:20	2
All + Carried 4			Grand total 7140.9					

A typical logbook view in Odyssey Pro

it into any commercial desktop logbook program was a relatively easy task.

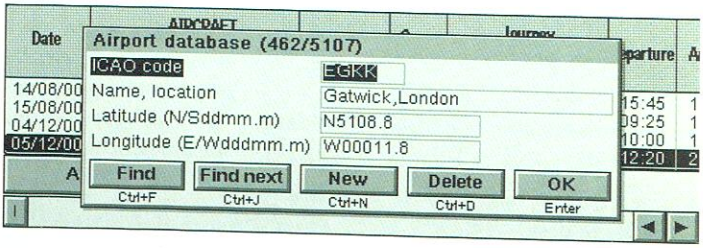
For proper logbook facilities, I use **Odyssey Pro 2000**. This is laid out like a conventional paper logbook (which must still be kept in parallel with any electronic version) and will automatically calculate day/night splits, as well as creating reminders, for example when a medical check is about to expire. It allows a pilot to generate reports of how many hours he/she has flown, on which type of aircraft or simulator and in various operating capacities. It also lets a pilot conform to the CAA (Civil Aviation Authority) limits on flying hours (100 hours in any 28 day period, 900 hours a year) as well as any extra restrictions imposed by the company, giving a valuable safety net on the rare occasions when the crewing department make a mistake in the rosters.

The beauty of an electronic logbook is being able to edit entries without the use of correcting fluid and to search for particular flight details. Many pilots have flown for long enough to have filled an entire paper logbook and can have a veritable library to search through. It is also useful to be able to keep many backups in different locations, as the loss of a logbook is disastrous.

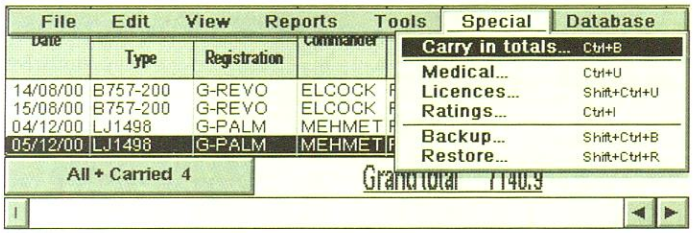
However, the CAA do not (currently) recognise the official use of logbook software and thus the keeping of an electronic version is somewhat redundant. Another downside is the fact that certificates and signatures from examiners and instructors cannot easily be incorporated into an electronic logbook, thus creating authentication problems, which is the main reason for the CAA's reluctance.

The Loadsheet

A vital part of any commercial flight is the loadsheet, which determines how heavy the aircraft is and thus how limiting the performance might be. It contains information for trimming the aircraft correctly (making sure it is in balance by calculating the position of the centre of gravity) as



Odyssey Pro's airport database



Some of the useful features of Odyssey Pro

well as passenger or cargo load information. This is normally worked out by a third party at the home airport and arrives in the form of a computer printout. However, down-route, at many of the smaller destinations, for example in the Greek Islands, these facilities are not available and the loadsheet must be worked out by hand. A carbonised form is provided for this (it must be completed in duplicate), but in order to double-check the maths a colleague of mine has devised a spreadsheet. Fortunately, the Psion palmtop is a popular choice for aircrew, so sharing the file template is a breeze. By locking the cells, the sheet can be used again and again without needing to erase the data from the previous flight.

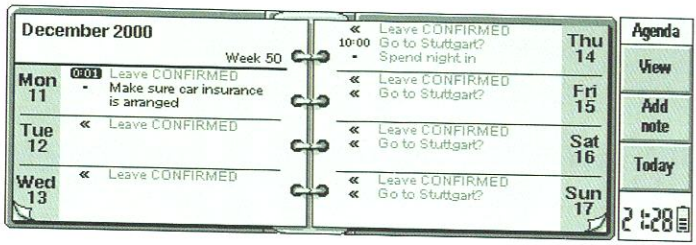
The CAA and the aviation industry as a whole are notoriously reluctant to embrace modern technology. For example, GPS (see page 83) is not currently used on our Boeing 757 aircraft, which use computers with less combined power than the Revo this article is being written on. The paperless cockpit is a concept that is likely to remain a dream for some time to come.

Other applications

Despite the impression many pilots would like to give, we *are* human and have to deal with the rigmaroles of everyday life in the same way as everyone else. Keeping track of finances, especially when working with different currencies and getting paid different amounts every month, as well as claiming expenses, could easily become a nightmare. It is simply not possible to telephone your bank for a balance or to consult your accountant when you are seven miles high over Slovenia at two in the morning.

I find **BankPlus** a useful tool for balancing my bank accounts. Calculating the value of an outstanding loan, share portfolio or unit trust can be accomplished using (again) the multi-purpose Sheet application, which in turn is easily linked to other, more advanced, programs on a PC.

The graphical view of an account balance in BankPlus



Illustrating the use of tentative entries to outline leave, in which other entries can be confirmed

Of course I use **Agenda** to keep tabs on where I'll be so that I can arrange to meet up socially with colleagues who are operating to different schedules. I find the 'tentative' attribute comes in especially useful for planning holidays within booked leave.

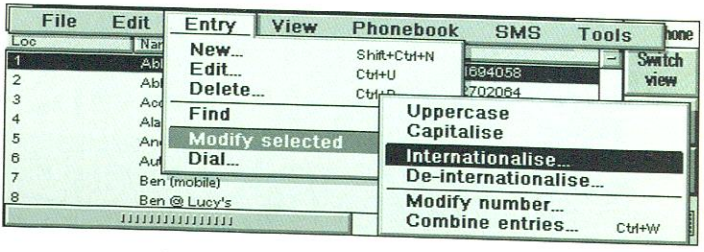
Keeping in touch

Being away from home so much means that a mobile phone is an essential part of every pilot's tool kit when not flying. With the limited amount of memory available on a SIM card, the ability of the excellent **PhoneMan Pro** to store several different phone books that can be uploaded to a phone at will is an incredible boon. For example, while at London's Gatwick airport it is not very useful to have all the phone numbers of hotels, taxi companies and local company offices in Newcastle, for example. The opposite of course applies when in Newcastle. Another very useful function is being able to change all the numbers in a phone book to an international format at one stroke. Being abroad for much of the time, most of my calls have to be made internationally.

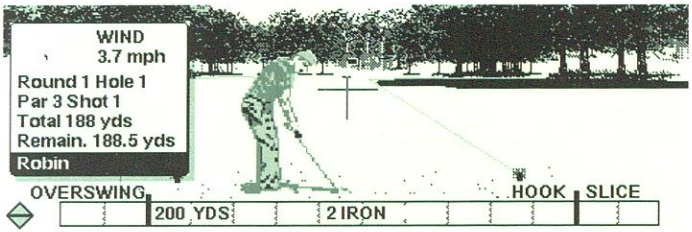
By linking the Revo up to the Internet, either via a mobile phone or conventional modem (linked to the docking station by a 9-pin null modem adaptor), I can use **Email** from hotel rooms all over the world. There is great comfort to be had in being able to send and receive emails wherever I am likely to be. The Revo allows mails to be composed off-line, of course, since at 35,000 feet most extension cords won't reach.

After hours

As well as being an invaluable business tool, an advantage of the clear-screened Revo is its ability to run games, downloaded from the Internet. The card solitaire **FreeCell** (only available in Series 5 format, but just about useable on the Revo's smaller screen) occupies many an idle moment. And being stuck in an airport terminal sitting out a six hour delay is a lot less painful with a round



Many useful functions in PhoneMan Pro



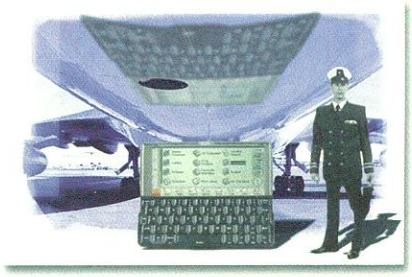
Teeing off in Fairway

or two of golf to play (remembering to let the Captain win) on the excellent **Fairway**.

Flying with different Captains all the time makes it difficult to keep track of who they all are. I use a simple Data file, making it easy to look up my notes on each Captain to fill the gaps in conversation on long night flights. 'Remembering' the names of the Captain's children, as well as a few choice interesting topics, can earn valuable brownie points to compensate for a poor landing!

Small and convenient...

A major advantage of the Psion Revo is its compact size. Being able to tuck it into a corner of a bulging flight case lessens excess clutter in the cockpit—a major safety consideration. Furthermore, whereas a laptop needs a flat surface (or at least a lap), the Psion can be used standing up or held in one hand, enabling it to be used as effectively during severe turbulence as at the bus stop. The lack of moving parts in the Psion contributes to its overall robustness. Considering the abuse that flight crew baggage tends to go through, this can only be a good thing.



Availability

Odyssey Pro 2000 - £94, by Navtech Software, *www.avnet.co.uk/navtech*

BankPlus - £8 shareware, by Pete Sipple, *www.petesipple.co.uk/bankplus.html*

FreeCell - $12 shareware, by Mark Fitzpatrick, *www.epocsoftware.com*

Fairway - £12 shareware, by Steve Litchfield, *3lib.ukonline.co.uk/fairway.htm*

PhoneMan Pro - £15 shareware, by SG Software, *www.sgsoftware.com*

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Getting to grips with Macro5

In the first of a multi-part series, Steve Clack looks at how to get the most from one of EPOC's most powerful third party utilities, starting with the basics...

Of the dozens of utility programs available for the EPOC platform, Pascal Nicolas' freeware Macro5 has to be the most flexible and powerful of them all. As with desktop computer-based macro programs, its main function is simply to allow keystrokes to be recorded and then played back in sequence. Beyond this basic concept, the program can be used to automate a multitude of tasks.

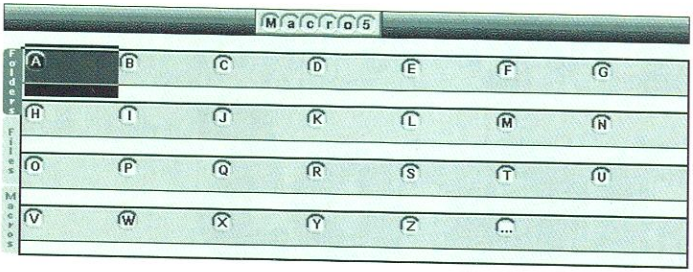
With a copy of Macro5 and just a little practice, you can use existing shortcuts (or create your own) to launch your favourite programs or files, jump to specific folders, paste pre-defined text or the current date or time into documents, and a thousand other things. Over the next few issues of Palmtop we'll be looking at how to install and set up Macro5, and how to perform tasks ranging from simple shortcuts to writing your own hand-coded macros to perform more sophisticated operations. We'll also be taking a look at some useful Macro5 plug-ins that can further extend its capabilities.

Other programs are available to perform one or more of the functions of Macro5, but none of them do it all 'under one roof', and with only one program to learn and no risk of compatibility problems that can crop up when running several utility programs at once, Macro5 remains the best choice for many users—and it's free.

Despite not having been updated for more than a year now, the most recent version (2.40) works perfectly with all Psion models apart from the Revo family. Although it will function on these machines, it has yet to be reworked to run within the smaller screen size, which makes program operation very difficult, particularly for the beginner. The good news is that there are plans to make the necessary adjustments for Revo operation, but they have not been implemented as yet.

Installation

To get things off on the right foot, and assuming that you haven't already installed the Macro5 software onto your Psion, let's take a look at how to get it up and running:



Don't be daunted by the initially spartan look of Macro5's main screen—all will be revealed

1. Download and unzip the Macro5 Zip file (currently 'Mcr5v240.zip') from *pnicolas.epocboulevard.com*, or find the 'macro5' folder that appears on all recent Palmtop CDs.
2. Open the 'Install.txt' file from within this folder, and follow its instructions. You don't need to install the optional sample macros as yet, but keep the 'Macros.zip' file handy, as we'll be using some of these examples at a later date.
3. Once installed, a Macro5 icon will appear on your Extras bar, ready to run!

What does it all mean?

The most daunting aspect of Macro5 for the novice user is the fact that the opening screen presents no immediate functionality, and there's no hint on what to do next. In fact, this isn't the screen from which your shortcut macros are invoked anyway (though it looks almost identical), but merely where you configure the program and set up the shortcuts.

Looking briefly at the main Macro5 screen, you'll see three 'tabs', labelled as 'Folders', 'Files' and 'Macros'. Tapping on (or using a special keyboard shortcut for) one of these tabbed headings will switch to the appropriate panel, each of which can contain up to 27 shortcuts, to be accessed by the letters A-Z, plus the [Spacebar] key (which you'll see represented by '...' on the three panels). These default headings can be changed to whatever names you like, and all three of the panels are functionally identical. With all panels fully populated, you have a maximum of 81 shortcuts, which is ample for even the most power-hungry user.

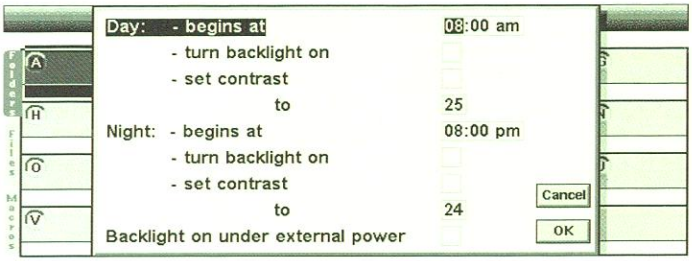
Before learning how to add our first shortcut, we'll go through a few steps in configuring Macro5 for use. As you become more proficient you'll want to modify some of the settings to suit your own way of working, but for now we'll put in some sensible values.

Backlight and contrast control

Aside from the ability to create 81 shortcuts, Macro5 can be used to switch your screen backlight on or off automatically at power-on and to adjust the screen contrast, depending on the time of day.

To set this feature, use the 'Tools | Preferences...' menu command, which will bring up a backlight/contrast control dialog, as shown at the top of the following page. If you wish to use this feature, follow these instructions:

1. On the top line of the dialog, set 'Day: - begins at' to the time you want to switch the backlight *off* every day, and



The Preferences screen...

uncheck the 'turn backlight on' box. If you want to set the screen contrast for the daytime hours, check the uppermost 'set contrast' box and enter a suitable contrast value in the adjacent 'to' line.

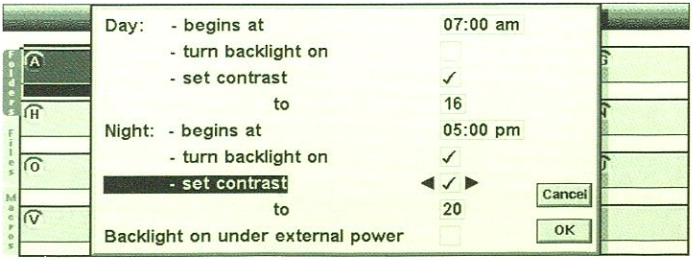
2. In the lower half of the dialog, set 'Night: - begins at' to the time you want to switch the backlight *on* every day, and check the 'turn backlight on' box. If you want to set the screen contrast for the nighttime hours, check the lower 'set contrast' box and enter a suitable contrast value in the adjacent 'to' line.

Note that the 'Night:' value must be greater than the 'Day:' value—in other words it must be at a later point in the day. If you simply wish to turn your backlight on at each power-up there is no specific option for this, but you can do it effectively by setting the 'Day: - begins at' to, say, 01:00 am, and 'Night: - begins at' to 01:01am, giving only one minute of 'day' time in which the backlight is left off. Sadly, the backlight control doesn't override the system's 'Switch backlight off after' setting, so it can't be used to hold the backlight on continuously, but is still useful.

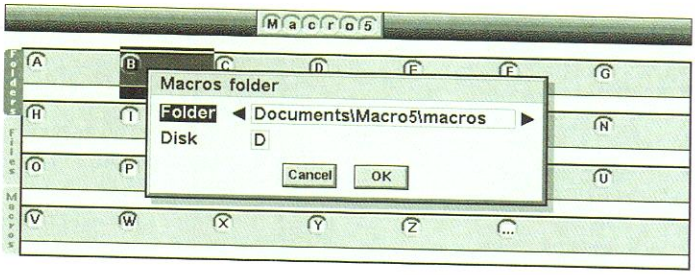
Also note that, even after tapping on 'OK', the settings will not take effect until you next switch the machine off. When you subsequently turn the unit on again, it will immediately use the appropriate backlight and contrast settings for the precise time that switch-on takes place.

Where are my macros?

Whenever you create a shortcut macro or want to import a pre-existing one from the vast library available, they should all be stored in a specific, pre-defined folder. This folder is set as 'C:\Documents\Macro5\macros' by default, but if you prefer to use a different name or store it on a CompactFlash disk instead, you must go into 'Tools | Advanced | Macro folder...'



...with some example values entered for backlight and contrast control



Choosing a suitable folder in which to store all your shortcuts

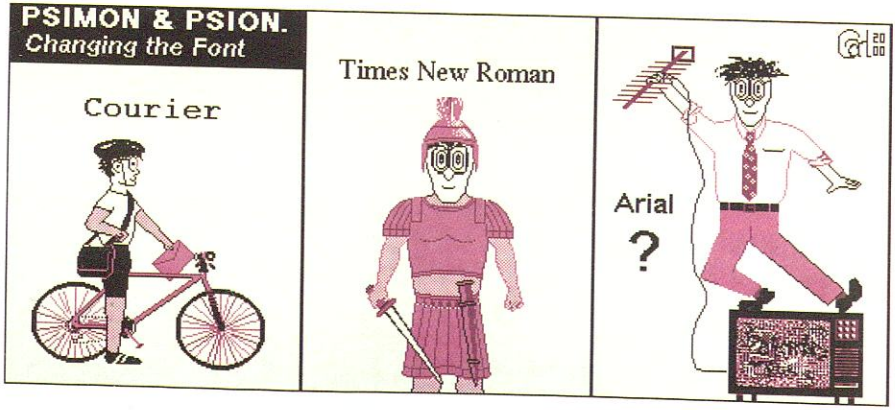
and enter a new location. Although you can always move and rename it later, it's best to do this now, before you start setting up shortcuts.

Always running

Note that before you can run any macros or shortcuts, including the backlight and contrast control feature, you must close any open dialogs within Macro5. If you fail to do this then your nothing will work. The most important point to remember is that whenever you've finished configuring the program or recording macros, you should either switch directly to another program (or the System screen), or use the 'File | Go to background' menu command from within Macro5. If you use the 'File | Close' menu command or [Ctrl]+[E] as you normally would when having finished working on a program, macros will not run. Remember, the application is designed to sit invisibly in the background, watching for you to enter certain shortcut keystrokes, so it can't do its work if you close it down!

Ready for work

Having done the bare minimum of configuration, use 'Go to background' now if you wish to continue experimenting on your own. In the next instalment, we'll look at how to use all the basic shortcut features before moving onto more advanced topics.



Getting along with

Street Planner Millennium

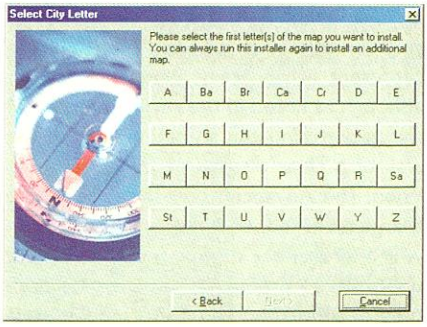
Steve Litchfield goes beyond the obvious to discover what this well known application can really do...

In its various incarnations over the years, we've reviewed Street Planner several times (most recently in issue 27), on each occasion giving a critical appraisal of its core functions, electronic mapping and route planning. Digging a little deeper however, into its interface and menu structure, reveals a surprising number of usability features, born of much user feedback and programming inspiration.

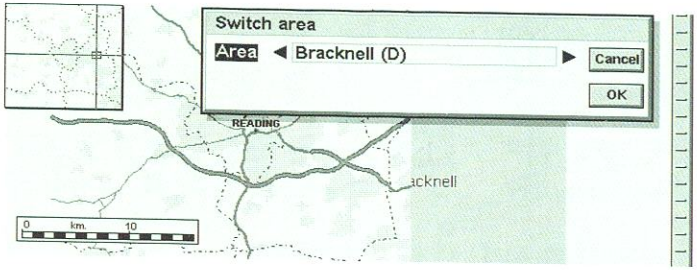
The map

At its most basic, Street Planner Millennium (SPM) is a hugely detailed street map of the whole of the UK (or Europe, depending on the version purchased), with the installation process guiding you through the selection of your first city, town or area. Even large cities require only half a megabyte of disk space and a typical installation on a CF card might have up to a dozen towns of various sizes loaded. London, the big one that everybody wants (see also our review on page 21) takes up to four megabytes, depending on the coverage area needed.

Although you can't display more than one map area at the same time (or plan routes *between* areas), SPM looks on your disk for installed maps of the adjacent areas and shows them as grey coverage boxes if found. Two taps of the pen and any of these can be opened instead—it's not an ideal system, but it works for most purposes.



Quickselecting a map to install by name



Switching map areas by tapping on a neighbouring region

You can zoom in or out at will, using either the 'zoom wheel' beside the toolbar, menu commands or one-press keyboard shortcuts (e.g. [I] for 'In'). A 'Zoom to...' command gives a number of common zoom presets, most usefully including 'Maximum precision' (effectively maximum zoom and maximum road and place detail all at once) and 'Full map'.

The two detail controls on the toolbar allow manual tweaking of the displayed road and place detail on the current display, although these changes get lost when you change the zoom level significantly and the program intelligently decides that a little readjustment is needed.

The 'Show...' toolbar button is important, giving access to the most common map preferences in a single, simple dialog. A 'Background' option overlays various shades of grey (or colour, on a Series 7/netBook) to represent urban areas, water, and so on, although as noted in the review on page 21 the background can sometimes get in the way of a clear display on a monochrome Psion. The 'Advanced' button takes you into a large multi-tabbed 'Preferences' dialog, in which all manner of fine detail can be set up, down to preferred font sizes for each type of annotation and preferred line style for each graphical element.

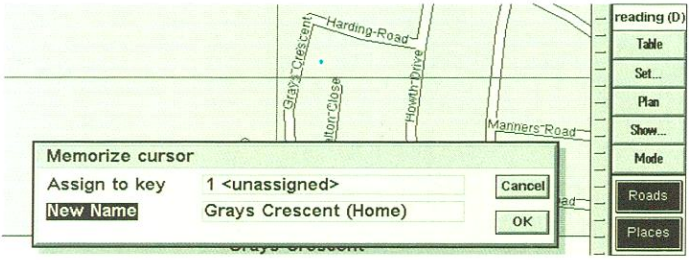
Tapping on a road at any point will overprint its name, and at high zoom levels a more familiar 'inline' labelling appears automatically.

Getting around

By default, SPM puts you in 'Scroll' mode, in which both pen and arrow keys can scroll the map display around. This is the best setting for general use. 'Cursor' mode (you can toggle between the two using either [Enter] or the 'Mode' toolbar button) comes into its own when needing to point to things on the map. For example, centering the map display on a certain location.

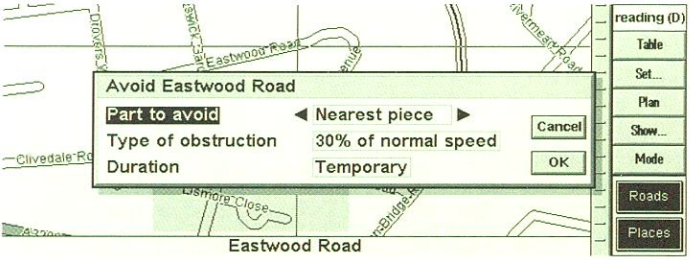
Also extremely useful is 'Memorize cursor...', in which you can set up to 10 numbered location memories, e.g. "Home", "Head office", "Mum and Dad", "Printers", etc. At any time later, you can then press the number key corresponding to the location you want and the map will be centred automatically on your chosen place. Each installed map can have its own set of 10 such memories.

[Ctrl]+[F] executes the 'Find...' command and is perhaps the best way of finding a road initially. The software offers the choice of selecting a junction along your chosen road, although the default 'Anywhere' is usually good enough.



Memorizing a location, in this case my home

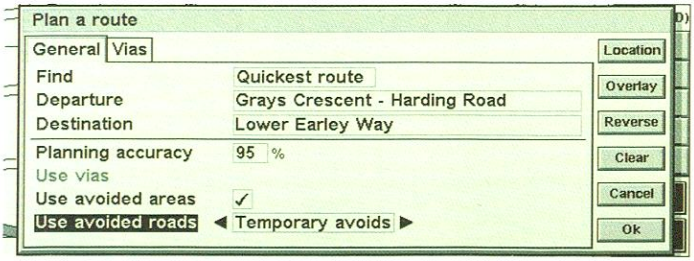
Advanced road avoidance



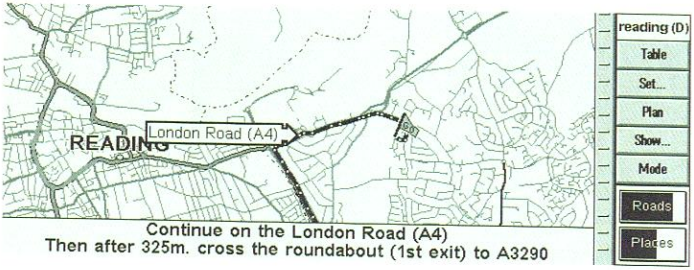
Advanced route planning

Of course, the word 'Planner' in the name gives the game away that this is much more than a highly detailed map. You can choose any spot on any road as your departure, destination or as one of up to four 'vias'. SPM then calculates the quickest (or 'shortest', 'preferred' or 'walking'—you choose) route, taking into account such factors as one way streets, avoided areas (you can establish these using a pop-up resizable rectangle) and avoided roads.

The latter can be selected using 'Cursor' mode and provide for a much more detailed way of telling SPM about obstructions than simply blocking out an area. For example, you might specify that a certain section of a road has an obstruction that reduces traffic speed to 30% of normal and that the obstruction is temporary. The 'Plan a route' dialog then offers control of whether avoided areas and/or avoided roads are taken into account, and whether to ignore temporary obstructions or not. In this way, given a minute or so of set-up time, you can compute a 'real-time' optimum route that



Planning a real-life route, with rush-hour and roadwork avoids



Following a route, one arrow keypress at a time

takes into account what you see around you or what you know from past experience or local knowledge.

A powerful feature is that if road conditions vary predictably, you can save sets of avoids to named files for loading back in at a later date, such as 'Mon-Fri rush hour'.

Once calculated, SPM's justifiably famous 'Route indicator' mode kicks in (though [Space] toggles it off again if needed), with each press of an arrow key moving the indicator further along the route and a status line at the bottom of the screen giving plain English driving directions. The [Up] and [Down] keys step along the route at a sensible rate, although nervous navigators may want to use [Left] and [Right] instead, which steps along in smaller increments.

Full (and split) screen tables of instructions are available and easy to print out, and the fonts used are controllable using the standard zoom command icons.

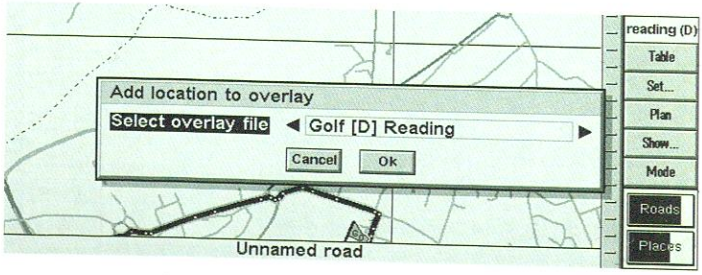
Overlays

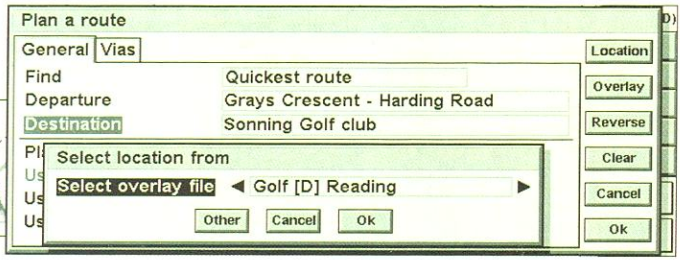
An overlay is a database of map locations of special significance. For example, you could create one for golf courses in your area, with each course represented by a single, custom-designed icon. Several overlays can be open at once (e.g. golf courses, shopping centres, multi-storey car parks, etc.) and all show up at once on the main map screen at all zoom levels.

The overlay system is nicely tied in with the location memories referred to earlier, such that when defining a new overlay item you can opt to assign it one of the 10 numbered memories and then move straight to it at a later time with a single keypress.

In situations where you've built up an overlay of reasonable size and need to 'find the nearest', SPM will locate the closest item in any specified overlay to your current map position.

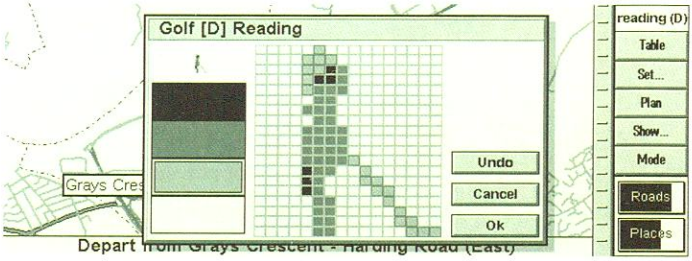
Adding a new item to an overlay





Directly inserting an overlay item into the 'Plan a route' dialog

Designing a custom icon for my new overlay

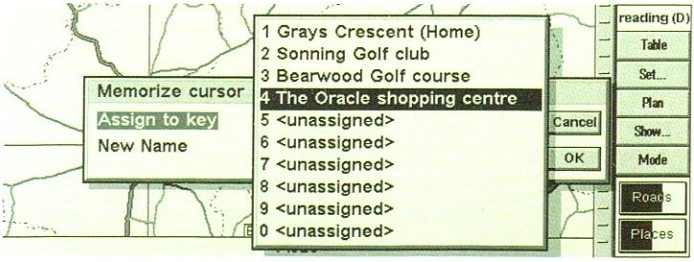


Planning tricks

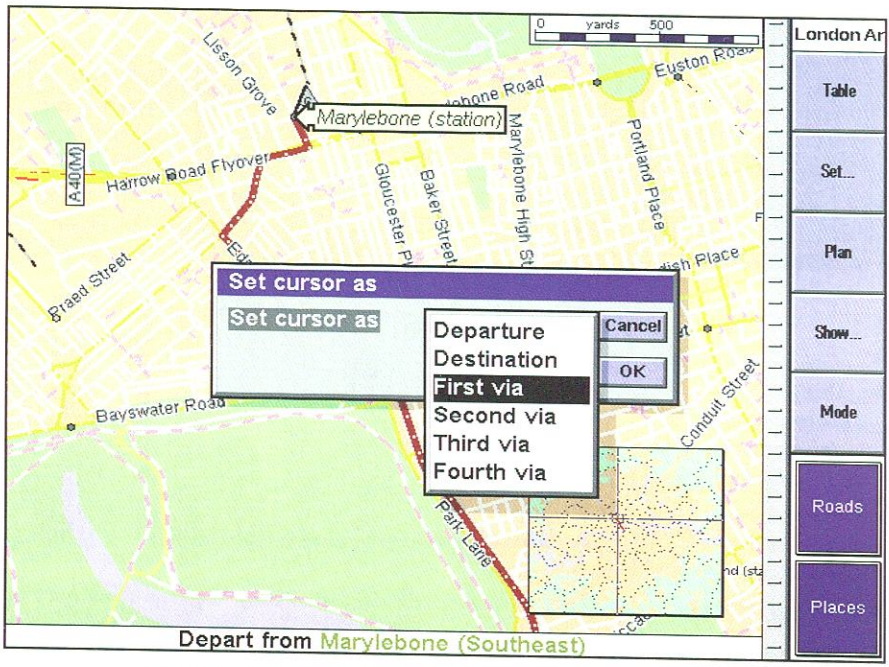
Specifying road junctions by name is an obvious way of setting up route start and stopping points, but there are plenty of others, especially when time is short. Within any of the location fields in the 'Plan a route' dialog, tapping on 'Overlay' will insert the overlay location of your choice directly. Even faster, if you've already allocated a location or overlay item to a numbered memory, is simply to press the appropriate number key and the field will be filled in for you. Using these techniques, and as long as your departure and destination points are known to you and already 'filed' (in a memory or overlay), it's possible to calculate a route from scratch in only six keypresses.

Commonly calculated routes can be saved to disk if required, usually either because they're too complicated to remember properly or because you want to print them off later to give to someone else.

Another time-saver is setting any of the route's locations using the cursor, on-screen. Once in the right place, the 'Set...' toolbar button lets you set up locations directly,



Starting to populate my numbered location memories



Setting the cursor position as a route 'via', on a Series 7

without even knowing the names of the roads concerned.

Still a killer

Originally described in reviews as the killer application for EPOC, Street Planner Millennium has lost none of its power to impress, especially in the UK, where good mapping is usually expensive, and especially as it runs efficiently on the tiny Psion Revo. Planning and following a 10 mile, 50 junction route with convoluted vias and avoids, on a palmtop that's less than 15cm long and 2cm thick, is as worthwhile as it ever was.

GPS moving map

One of the most trumpeted features of Street Planner Millennium is of course GPS moving map, in which your physical position on the earth's surface is overlaid on the map screen. See page 83 of this issue for more information on GPS and related functions.

Working with Word

In the fourth part of our series, we show you how to get the most from your Psion's powerful built-in word processor

by Steve Clack

After completing our properly formatted letter in the last issue, we'll now look at how to save the bare bones of it as a template that can be used to create subsequent letters with the minimum of effort.

A good start

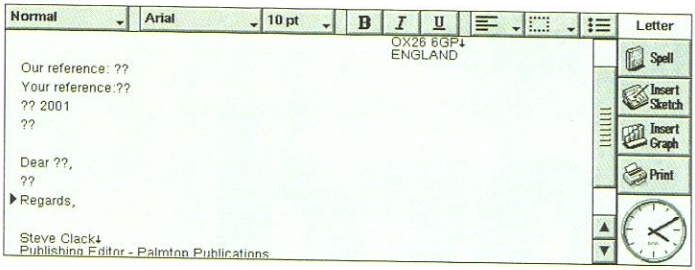
Having previously gone to the effort to set all our paragraph and text attributes, tabs, indents and so on, it's heartening to know that this can now be used as the basis for future letters. To save our previous letter as a template, first open up the completed document from last time.

In its simplest form, we could merely save the entire text of the existing document as our template. The only real disadvantage of this is that we'd have to go through all the text by hand: deleting, adding to and modifying each element in turn. Without any kind of prompting as to which parts of the document need updating, it's all too easy to forget to change a name or address, or to leave an unwanted block of text in place.

The most efficient technique is to delete all the document-specific text completely, replacing it with 'placeholder' markers as necessary. You can either use a special character that you never use in your normal text (perhaps a '¥' or '©' character), or something else that doesn't normally appear in documents, such as '??', which I use myself.

So, the next step is to go through the document, replacing all the appropriate text elements with your placeholder character(s). For our sample letter, we'll do the following:

1. Leave the return address at the top of the letter in its entirety, as this will not change from one letter to the next.
2. If you've used 'Our reference:', 'Your reference:', and so on above the body of the letter, leave this text in place rather than retype it every time, but replace the reference numbers with placeholders.
3. You can either replace the entire date with a placeholder, or leave part of it, such as the year number, to save a little



Our sample document, ready to save as a template. Note the '??' placeholder text

more retyping. If you do this then you'll have to open, update and re-save the template from time to time.

4. Replace the entire recipient's address with a placeholder, unless you send a lot of correspondence to that particular address, in which case you may wish to save this document as a specific template for that person. Remember that you can save as many templates as you wish (subject to available disk space), so if it's going to save you a lot of retyping then it's worth considering.

5. For the salutation, replace anything after the 'Dear ' with a placeholder.

6. Replace the entire body text with a placeholder, unless the text itself is something that you wish to reuse. For example, you may have a standard letter giving customer information, offering a quotation, presenting a price list and so on. If so, save the document complete *with* the body text, as a suitably named template.

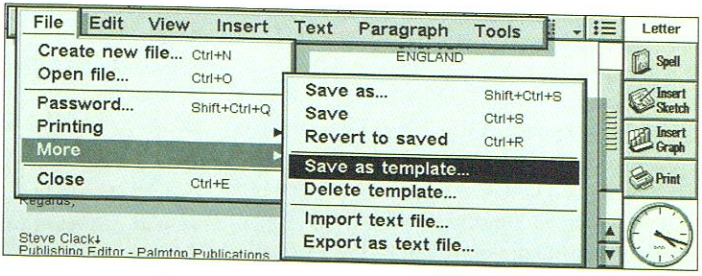
7. Finally, you'll probably want to keep your sign off text intact, as this generally won't change from letter to letter.

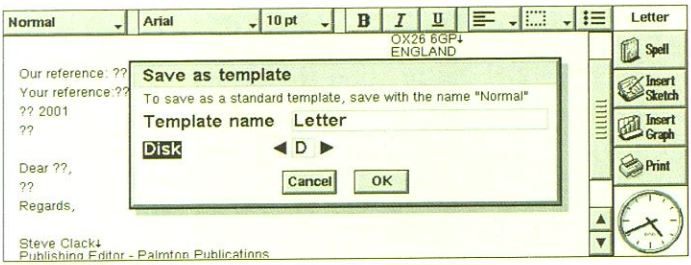
At this point, your document should look something like the screenshot above, with your own preferred placeholder character in place of my own '??' strings. Whenever you come to create a new document based on the template, you can either search and replace the placeholder text, or just scan through the document, adding in the appropriate text as you go.

Saving the template

In order to save this precious template, use the 'File | More | Save as template...' menu command. From the resulting dialog, choose a name and select a disk on which to store the template file, then tap 'OK'. If you wish to save this as your *standard* template, which Word will then open whenever it is launched, type "Normal" as the name. Unless you write letters almost

Time to take the plunge and save the template for future use





Choosing a name and location for the template

exclusively, you'll probably find it preferable to use a name such as "Letter" or "Letter template" instead. Limit your name to no more than about 25 characters, as this is all that will fit into the pop-up dialog that appears when you subsequently try to select and open a template.

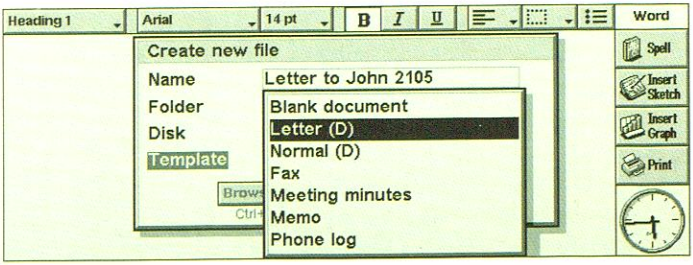
Where did it go?

Your saved template will be stored in a '\System\Templates\Word' folder, on whichever disk you previously selected. This folder location cannot be changed, though you can manually move the templates between '\System\Templates\Word' folders on different disks if you wish.

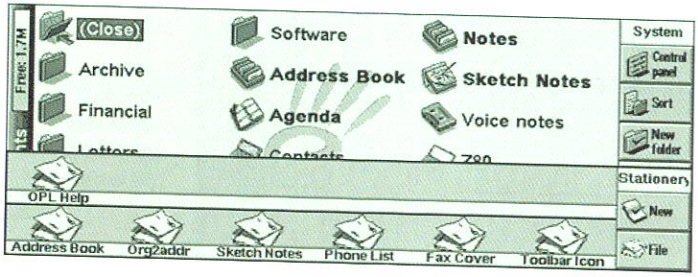
And how do I use it?

Once the template is saved, you can safely delete the original letter document, as it now has no useful purpose. To start a new document based on the template, first tap on the Word program icon, which will take you into the last document you were working on. Next, select 'File | Create new file...' From the resulting dialog, enter a name for your new document, selecting a folder location and disk if necessary.

On tapping 'OK', you'll instantly be taken into the new Word document, with all your template elements in place. When you then re-save your new document it will of course always be saved as a *document* rather than a template, leaving the original template intact for further use. If you want to make changes to the template itself, there's no need to track it down in the '\System\Templates\Word' folder—just open a new document based on the same template, make your changes, then re-save the template onto the same disk using the same name, which will then overwrite the original.



Creating a new file using an existing template



Create templates with a Series 5 'Classic'—even in other applications, with the free StationeryPad

Template management

Make the most of templates by creating new ones for any document types that you use more than a couple of times. Always bear in mind that it rarely takes more than a minute to reduce a document to its reusable text elements and placeholders, and it can save at least that much time on almost every subsequent document you create.

If ever you wish to delete a template that is no longer used, use the 'File | More | Delete template...' menu command, and select whichever one you wish to zap.

Current EPOC models are supplied with pre-defined templates for fax, meeting minutes, memo and phone log documents. These may not suit your personal requirements as-is, and as they're stored in your system ROM it's not possible to delete them. However, they often form a good starting point for your own templates—just open a document based on one of them, make whatever changes you like and then re-save it as a new template. Because you'll be saving to 'C', 'D' or 'E' rather than the ROM ('Z') drive, you can even use the same name.

No templates built-in?

If you're running a Series 5 Classic, which has no built-in template facility, you can get around the limitation with a copy of John McAleely's freeware StationeryPad utility, which is available from *www.mcaleely.com/freeware* and on all Palmtop CDs. In one respect this solution is actually preferable to Word's built-in facility, as it can be used to create templates for other applications too. StationeryPad can also be used on later EPOC models, alongside Word's own template facility.

And on to greater things...

In the next instalment we'll create a brand new document where we'll take a more detailed look at the use of text styles, and show you how to create tabbed lists and embed tables and graphical objects inside your Word documents.

The GPS experience

John Wetton explores ways in which your Psion palmtop and standalone GPS receiver can help each other

Whether you're a hardened traveller or simply a fan of high-tech gadgets, GPS receivers never cease to fascinate. Being able to locate your position on the earth's surface both absolutely and relative to other known waypoints is always impressive, and in conjunction with a palmtop with vastly more computing horsepower, display area, memory and storage space and mobility, the navigational possibilities are positively mouth-watering.

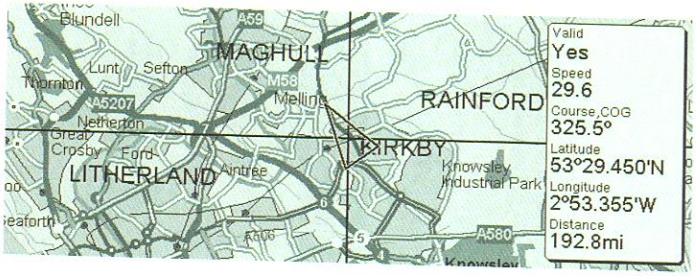
There are a number of manufacturers of GPS units, but in my experience wherever a programmer has created a GPS utility that's manufacturer-specific, it's always designed for a Garmin unit. One of the pioneers in personal GPS, Garmin has both made sure their units conform to the NMEA standards (National Marine Electronics Association, *www.nmea.org*) and also created their own more powerful control protocol, making them ideal candidates for hooking up to software on mobile computers.

Having said that, enough GPS devices conform sufficiently well to the NMEA 0183 standard (the text-based language used to pass information between GPS and computer) that much of the software described in this article will work satisfactorily. As with any system involving an interaction between computer electronics of two different types, a degree of trial and error is sometimes involved in getting the hardware and software talking to each other successfully.

Program types

The software available to interact with GPS units falls into several general types:

- **Route planners and electronic maps for navigation** - with third party add-ons to improve certain aspects or give added functionality.
- **Waypoint managers** - to enable better waypoint and route creation and editing, especially useful as a palmtop's 'qwerty' keyboard is much more convenient than inputting data directly into a GPS unit.



RealMaps—perhaps the ultimate in Psion moving maps, but heavy on your time and memory

- **Marine software** - ranging from an automatic logbook generator to full navigation packages.
- **Aviation software**.

Route Planners, maps, add-ons

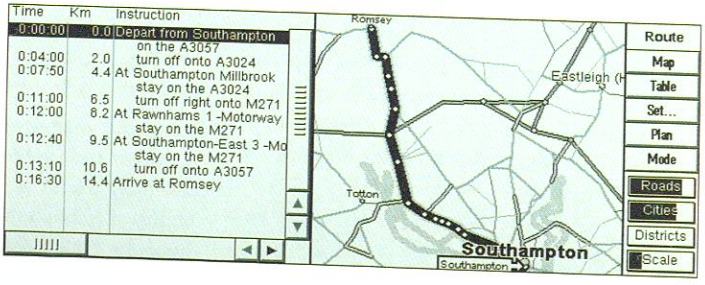
RealMaps is an electronic map system, using a GPS feed to overlay your position on an image of a scanned-in paper map. Due to obvious copyright issues you have to do your own scanning, but the calibration of the resulting map images is made relatively easy in the RealMaps system. See issue 28 for a full review. *www.realmaps.co.uk*

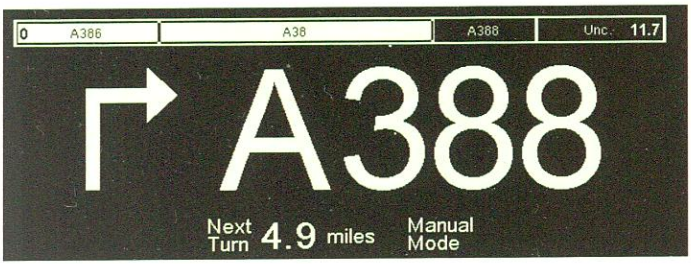
Two popular GPS-compatible applications are **Route Planner** and **Street Planner**. Think of Route Planner as your long distance road planner and Street Planner as your town A-to-Z. With a suitable GPS output fed into the Psion, your position can be displayed on the main map display. Route Planner is available in European and North American versions, and Street Planner in European and UK versions. See issues 26 and 27 for recent full reviews, and this issue for a feature on Street Planner and a review of the new London-only version. *www.palmtopsoftware.com*

Garoute allows routes created in Route/Street Planner to be transferred as a series of waypoints into a Garmin GPS, effectively creating a simple map. Garoute can also be used as a waypoint manager (see below for more options), using a standard Psion Data file to store waypoints. It uses the latest Garmin protocol to talk to the GPS and should work with most current and all future models, though not the older Garmin GPS 100 range.

You do need to make sure the print options are set up correctly in Route/Street Planner for Garoute to work, but this is well documented in the help file. *www.geocities.com/siliconvalley/orchard/5730*

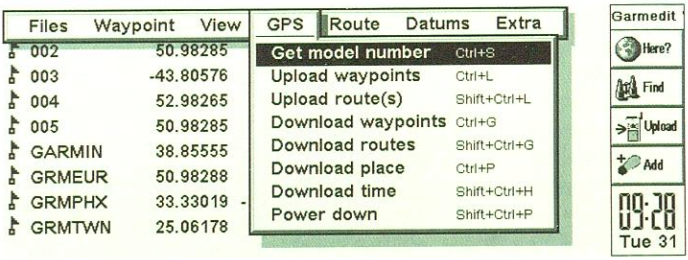
Route Planner is very useful on its own, or as a generator of instructions for other applications





Large and clear driving instructions in CoDriver

Waypoint management in Garmedit



CoDriver also uses routes created by Route/Street Planner, this time to create a full-screen set of step-by-step driving instructions, which are easier to see while driving than map detail. With a GPS plugged in, the software intelligently advances the instructions for you as you pass each intersection. See issue 23 for a full review. *freespace.virgin.net/patrick.fox/codriver*

Waypoint managers

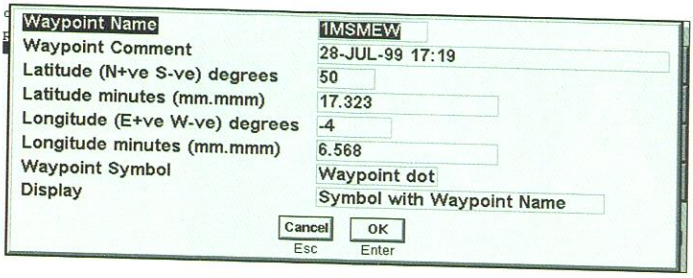
These allow for creating, storing and editing waypoints on the Psion palmtop, then transferring them to the GPS unit. Alternatively, you can export GPS-created waypoints from the GPS to the Psion.

Garmedit has been around for some time for the Psion Series 3 range, but it's now in beta test for EPOC. It's rather basic at the moment but is well documented and we can look forward to future development. *www.bigwig.net/mjcoon/page20.htm*

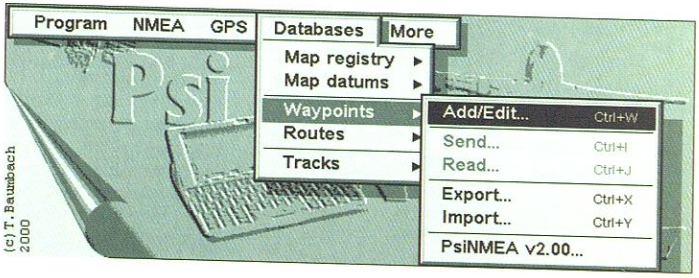
Garpsi5 initially looked like a winner, with a good help file and list views. Using it in real life, however, showed it not to be very user friendly. After a long period of inactivity from its developers, version 2 of the software has been released, but despite several attempts, I have been unable to get it working. *www.geocities.com/colesseum/Dugout/7981/psiongb.htm*

Psigar5 should not be confused with Garpsi5. The first version of Psigar5 was quite basic, but it has now evolved nicely and in terms of ease of use the current version is probably the best Psion waypoint manager currently available. It can use waypoints you have already corrected in PCX5 (Garmin's old DOS-based software) and can interface with RealMaps.

The creation, editing and storing of both routes and waypoints is supported, and it looks like this will be developed further. *homepage.ntlworld.com/jonathan.duff*



PsiGar5 is comprehensive and works well



Psinmea is a top-notch general-purpose GPS utility

Psinmea is an NMEA data viewer for the Psion. It can also be used as a waypoint manager and can interface with RealMaps to show your current or entered position on a scanned-in map. It's still in beta test at the moment, but is already good for anyone needing to view NMEA data from a range of sources. *pandora.inf.uni-jena.de/ttbb/nmea_engl.htm*

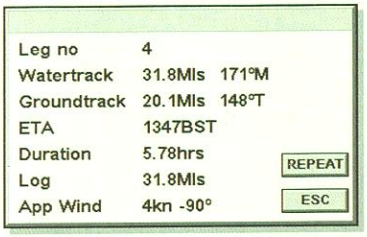
A Garmin handheld GPS receiver

Marine software

Navcomp is a port of the original program for the Series 3 range, originally intended for racing sailors to help them optimise their navigation and to take some of the work out of planning. Navcomp also has built-in sight reduction for those wanting to put Astro-nav into practice but not wanting to carry a sackful of books.

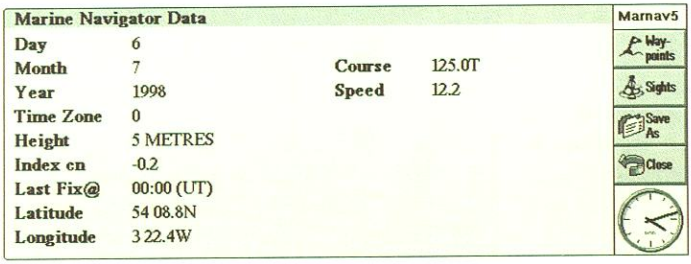
The GPS side is limited to providing current position for tidal information and to transferring waypoints one-at-a-time backwards or forwards using the NMEA protocol. The user interface could use some tweaks to make it more intuitive—you really need to keep the manual handy as there is no built-in help file. *ourworld.compuserve.com/homepages/infer*

Marine Navigator 5 has an easy to use interface, online help, and the best written manual of all the titles reviewed here. It's more of a planning tool and only really uses



An example of Navcomp's minimalist interface

Marine Navigator 5



GPS to create an automatic logbook, with no waypoint transfer available. Under way, Marine Navigator 5 can be used for sight reduction and to work out course and speed made good.

There's a new version of Marine Navigator in development with more GPS interaction promised. If they can achieve most of the functionality of Navcomp with their own interface and documentation then this will be *the* marine navigation program for Psion users. *www.dolphinmaritime.com*

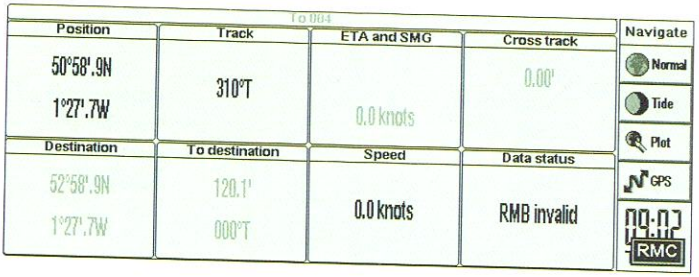
Navigate is also a strong (and very recent) contender, though still under active development. Navigate's displays include:

- An NMEA repeater.
- A tidal curve view. This has options for changing ports and dates. Height predictions can be made for a given time, and depths reduced to soundings.
- A pictorial view. A number of coast outlines are available and others can be generated via the Navigate web site. You can show a planned trip, though routes are drawn as rhumb line, so you have to plan to go around land. At present, only a one leg route can be displayed, but this is being worked on for the next version.
- A GPS view, giving your current position, destination, bearing and range. It also gives you cross-track error information.

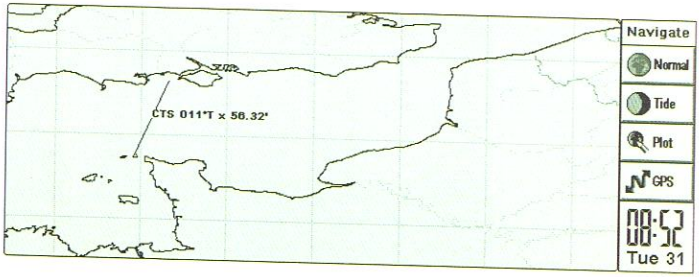
Navigate has user-editable databases for waypoints, tidal streams and port data for tidal height calculations (using simplified harmonic constants). In addition, there is a sight reduction facility for those with sextants. *www.wizworldservices.dial.pipex.com/navigate.htm*

Aviation software

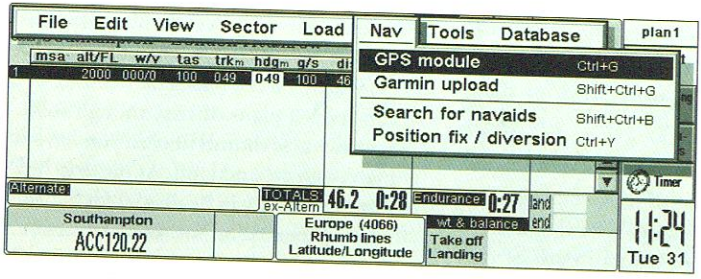
Sierra 7 is the only current aviation title with GPS support. Once connected to a



Keeping watch on your position in Navigate



Planning one leg of a trip



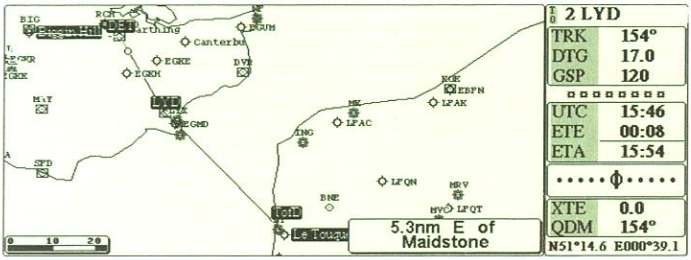
Sierra 7 —tabular...

GPS, with a sector calculated, a moving map display can be viewed, showing coastlines and the location of airfields and intersections.

Perhaps its most useful application is as a pre-flight planning tool, where bearings and distances between waypoints can be calculated, routes created and weight and fuel calculations performed. Radio frequencies can also be displayed and Morse identifiers checked. *www.avnet.co.uk/navtech*

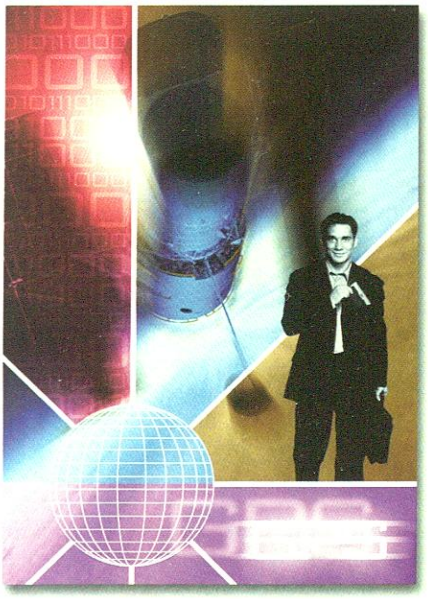
Hints and tips

When connecting a Psion to a GPS, the simplest (and cheapest) way is to use a standard manufacturer's PC cable for the GPS, your PsiWin lead and a 9-pin null modem adaptor (available from *info@gpsbitz.f9.co.uk* for about £10) to connect the two. In most cases the Remote link on the Psion should be set to 'off'. An alternative is a direct, dedicated, single cable connection (various suppliers, but notably *www.exportech.co.uk*).



...and graphical flight planning

The GPS should either have its interface set to 'Garmin' or 'NMEA' depending on the requirements of the Psion software being used. Note that the Garmin Etrex, Etrex Summit and Streetpilot only have 'one way' NMEA communications at present—some software titles require 'two-way'. Watch out for the same problem with models from other GPS manufacturers.



When choosing a GPS receiver to drive your Psion software, consider whether you need a unit that can be used on its own, for example when out walking. Palmtop Software's own-brand GPS unit (reviewed in issue 26) offers convenience and some technical advantages but requires a 12V power source and is therefore vehicle-bound.

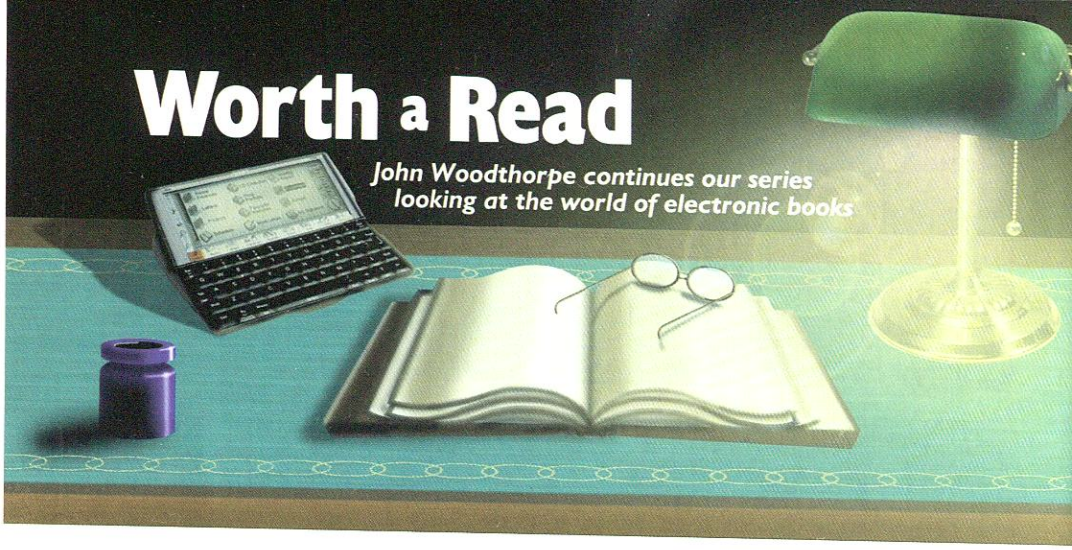
Above all, remember that all of the above are no substitute for traditional navigation methods. If you regularly venture off the beaten track then make sure you can still find your way home if the batteries in both Psion and GPS expire!

More on GPS

If you're new to GPS and would like more information, see our feature 'Starting up: GPS receivers' in issue 19.

Worth a Read

John Woodthorpe continues our series looking at the world of electronic books



In the news

Two recent events in the ebook world have created a lot of interest, even reaching some of the mainstream TV news programmes. One is the Frankfurt eBook Awards, and the other concerns Stephen King's foray into ebooks.

The Frankfurt awards have the slogan 'Extending the Reach of Reading', which is perhaps a little grandiose but at least is memorable. They are concerned with the whole spectrum of ebooks, including the dedicated electronic readers, and so their relevance to palmtop computer software is not as great as it might be. However, their significance doesn't lie in the devices that they deal with, nor even in who the seven prize winners were. It's in the fact that the general press noticed the awards and that they were mentioned in news broadcasts.

You can read about the awards, the body handing them out and the companies behind it, at *www.iebaf.org* .

Most certainly the interest would have been far less if not for the fact that a very high profile author has been involving himself in electronic books. It's generally agreed that **Arthur C. Clarke** got there first with a small piece published only online, and that **Frederick Forsyth** also dabbled in electronic distribution, but **Stephen King** has taken things much further.

'*Riding the Bullet*' is more of a short story than a novel and its 16,000 words won't detain you for more than an hour, yet people with even a passing interest in computers have heard about it. Over 400,000 downloads were reported in the first 24 hours after release earlier this year, many clocking up a $2.50 payment. Just as buying paper books from somewhere like Amazon.com is the typical first Internet purchase for many people, 'Riding the Bullet' seems to have introduced many to the practice of buying and downloading electronic books.

Despite the fact that certain versions were available free from some sites, and that the protection on one of the commercial versions was broken within days and pirated copies distributed around the Internet, King followed up 'Riding the Bullet' by releasing

a longer novel in instalments. Called '*The Plant*', it's a long-term project that he last touched 19 years ago but has now resumed work on—releasing new chapters every couple of months.

It's free to download in a variety of formats (including PDF and Palm 'DOC'), but King has asked readers to pay a voluntarily fee of $1 to $2 per chapter, and up to 80% of the 120,000 who downloaded the first three chapters apparently did just that.

However, he's now announced a delay while he works on other projects and the payment rate has dropped to around 50%, with only 40,000 people downloading recent chapters. This still means that he has made a remarkable $500,000 or so from it so far, very unusual in the ebook field. It does to help explain some of the unusual media interest though!

Mailing lists and newsgroups

As you would expect in a world where everything computer-related revolves around the Internet, there are several places where you can participate in discussion about electronic books. In my opinion, the best single forum is the ebook mailing list looked after by Jon Noring. It has subscribers drawn mostly from ebook authors, but with a smattering of users as well. It discusses a huge range of aspects of ebooks on all sorts of platforms, including the dedicated reader devices and the larger desktop platforms. Topics such as the relationship between authors and publishers, document formats and copyright aspects are regularly covered. It's not a list to post to without lurking quietly for a while first, and it doesn't cover palmtop machines very often, but it is both interesting and informative if you want to see what is happening in the wider world of electronic books.

You can subscribe to it by sending a message to *majordomo@aros.net* with the text "subscribe ebook-list" (without the quotes). If you send a message with the one word "help" (again without the quotes) to the same address, you'll see the commands that the list will accept.

Another, newer, list is the PDA-ebook list created in July of this year by Byron Collins. This deals solely with reading ebooks on palmtops. To join, send a blank email to *pda-ebook-subscribe@egroups.com* or visit *www.egroups.com/group/pda-ebook* .

The two main Usenet newsgroups that deal with ebooks are *alt.books.electronic* and *comp.publish.electronic.misc*, although they suffer not just from spammers but also from people who think that they deal with books about electronics rather than literature! For this reason, the aforementioned lists are generally more worthwhile.

Incidentally, Byron Collins's web site at *home.clarksville.com/~bcollins* is well worth a look, as he distributes a range of files in TomeRaider and Palm DOC format. The latter are generally suitable for use with MobiPocket, VReader5 or EBook. All files are free of charge and many are not available from other sources.

Hot tips for hot games

In this ongoing series, we invite a gamer to share some winning tips and strategies

SimCity Classic by Atelier (tips by Debbie Kniknie)

Steps to start with...

Start building

First build a power plant, without it your city won't come to life. Then add some zones. The Sims want to live somewhere (Residential Zones; 'R'), work somewhere (Industrial Zones; 'I'), and want to shop somewhere (Commercial Zones; 'C'). Place each zone type on the city map near the power plant. You can also add parks, stadiums, etc. and connect all the zones to the power plant with power lines. Note that power can pass *through* zones. Roads are also important—just build them along the sides of your zones. You will then see your city come alive.

About the Demand Indicator

Keep an eye on the Demand Indicator (located at the upper-right corner of the map). It has a vertical gauge for each zone type. If a gauge is above the middle line, it is in demand. Every thing beneath the middle line is not. The letters shown beneath the gauges represent the different zones. The Demand Indicator will help you decide which zones to add to your city.

Balance the budget

Because you are the Mayor, you will have to decide on the funding levels of the city services and tax rate. The Sims are like humans: they like to complain about everything you do or don't do. If they get too unhappy, they will abandon your city and you will then go bankrupt.

Cheat if you must...

If you find the game too tough, hold down the [Shift] key and type "fund". This will give you another $10,000 each time you use this cheat. But beware, if you do it too many times (nine, to be precise), the earth will shake!

The way to avoid this is to pause the game and type "fund" just 8 times, then save your city (still paused), close it, and reload the city. You can use this trick as much as you like.

SimCity Classic

SimCity Classic was reviewed in issue 22 of Palmtop magazine, and is available from major Psion dealers, or as an electronic download directly from *www.ateliersoftware.com/epoc/index.html* at $59.95. The latest version is compatible with the Revo as well as other Psion models.

How to win the scenario

Boston: Just pause the game. Place a nuclear reactor at the top of the island, at the very top of the map. Then un-pause, and the reactor you've just placed there will melt down instead of one in the city. Let the game run, and you'll win.

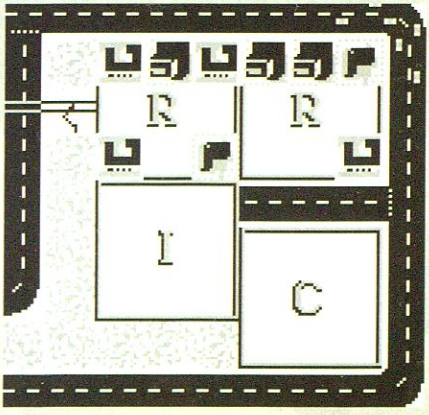
Tokyo: Bulldoze ahead of Miss Monster to prevent her from exploding zones. After she leaves, rebuilding shouldn't be too hard without the fires to contend with.

Saving space with 'overlapping'

Why 'overlap' zones? To save space and to increase your population. Because each zone will hold the same population despite being overlapped, much larger populations are possible, since you can stack multiple zones *within the same space*.

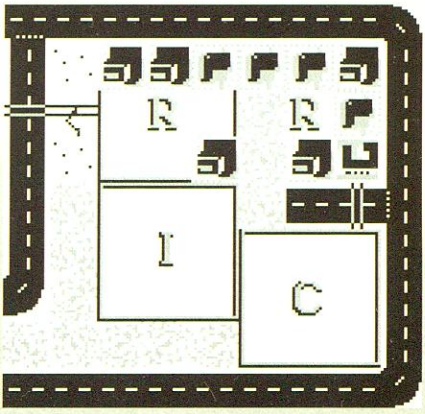
Stage 1

- You must first build a Residential Zone, then pause the game.
- Bulldoze some parts of the Residential Zone, but *don't* bulldoze the 'R' in the middle.



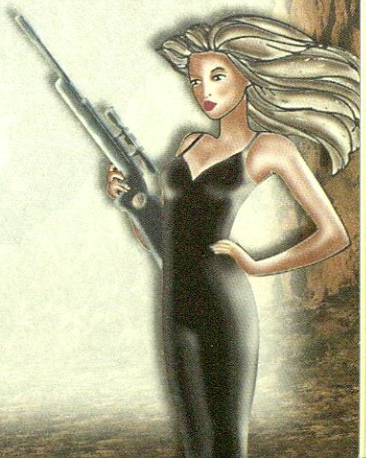
Stage 2

- As you can see in the image below, the Sims just build on and on, even though that area was bulldozed.
- Move the other 'R' zone over the just bulldozed space. This is called overlapping.



Stage 3

- Connect the Sims to power and roads. Un-pause the game and let it run for a while. You will see that double the number of people will move back in the Residential Zone you just created using overlapping, but with three squares left to build something more (see screen image over the page). Try combining this with other zones.



at prizes to be won!!

Tec cases and THREE multi-function stylus pens,
al of up to almost £300!

prize: any Palm-Tec case (including Pod hard cases for the Series 5/5mx allic painted colours), Shell hard cases for the Revo in a range of metallic Semi-rigid case for the Series 7/netBook, and funky Neoprene cases in two-tone colours (available for any model), or multi-function Pentopia (suitable for all Psion models). All winners will also receive a free pack urful translucent plastic pointers for the Series 5/7 or the Revo.

hree questions below and send your answers on a postcard to Palmtop Box 188, Bicester, Oxfordshire OX26 6GP, ENGLAND.

ept entries by postcard, and all postcards must be clearly labelled 2P. Any entries received by means other than postcard will be discarded. contact telephone number on your postcard. Anyone posting multiple qualified. Please state your prize preference* and which Psion model we can send you the correct pointer pack).

each prize type, visit Palm-Tec's web site on www.palmtec.com

reach us by 15th February 2001. The decision of Palmtop Publications 's CF disk winner was Shiela Wyver of Canterbury, Kent. The correct rocyon, 2. Steve Litchfield, 3. 'Excalibur'.

esponsible for The Plant?

what is Psinmea?

and Sierra will be familiar to what type of user?

On the NET

Our regular look at what's happening online, and where to point your browser

by Pete Sipple

More inner workings revealed

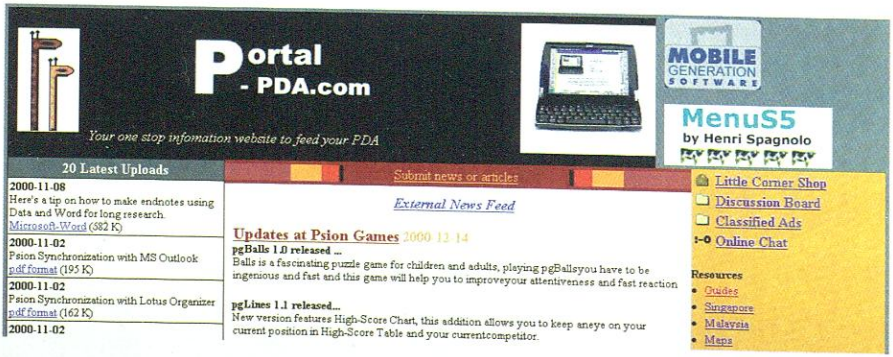
Sites containing details of Psion innards always seem popular, and **Portal-PDA** offers an excellent collection of close-up shots. Other sites, such as Akaev's Series 5 Inside (*psion.by.ru*) offer intimate shots of the inner workings, but the Portal-PDA site has a much more technical look at the Psion motherboards. Ruey Loon examines the Revo, Series 5mx and Series 7—well worth a look for the technically-minded.

While you're there, take the time to look around the rest of the site for a collection of help guides in PDF format, an active discussion forum (including a popular classified ads section) and a page dedicated to battery care for PDAs and mobile phones. It's possible to add a comment to any review, page or article, which really adds value to what you're reading. Another new addition is the PDA graveyard, where you can get an autopsy on your dead machine. *www.portal-pda.com*

The battery unit from a Psion Revo

Buzz off?

No sniggering at the back please. This thread of messages was found under the UseNet heading 'Vibrator', but rest assured it's safe to read on...


Portal - PDA.com
Your one stop infomation website to feed your PDA
MOBILE GENERATION SOFTWARE
MenuS5
by Henri Spagnolo
20 Latest Uploads
2000-11-08
Here's a tip on how to make endnotes using Data and Word for long research.
Microsoft-Word (382 K)
2000-11-02
Psion Synchronization with MS Outlook
pdf format (195 K)
2000-11-02
Psion Synchronization with Lotus Organizer
pdf format (162 K)
2000-11-02
Submit news or articles
External News Feed
Updates at Psion Games 2000-12-14
pgBalls 1.0 released ...
Balls is a fascinating puzzle game for children and adults, playing pgBallsyou have to be ingenious and fast and this game will help you to improveyour attentiveness and fast reaction
pgLines 1.1 released...
New version features High-Score Chart, this addition allows you to keep aneye on your current position in High-Score Table and your currentcompetitor.
Little Corner Shop
Discussion Board
Classified Ads
Online Chat
Resources
Guides
Singapore
Malaysia
Meps

"Before I take the plunge and buy a 5mx, does its alarm have a vibration option, instead of beeping?" (guyvf@my-deja.com)

"As far as I know, no. Just bleeping, ringing, church bells 'n stuff!" (gareth@gareth-and-jane-saunders.co.uk)

"I certainly hope not! If the damn thing started vibrating, it would probably fall off the edge of the desk!... and that's a polite response to the 'subject' in question." (m-mcconnell@clara.co.uk)

"Why the heck would Psion bother inserting a vibrating motor into the 5mx??? Think of the power consumption implications!!" (Psion.Man@lineone.net)

"No, but an alarm can be silent, or you can set all the sounds off at times. An external red light next to the dictaphone buttons flashes when the time is reached. Very useful when in meetings with the 5mx on the table." (pellegd@agf.xxxZxxx.fr)

Quartz crazy

epochelp

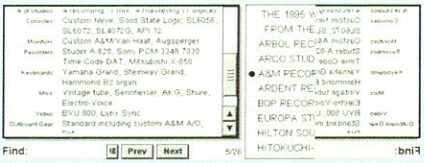
If issue 29's peek at the new Quartz designs from Symbian piqued your curiosity, you may want to find out more online. To see the future of EPOC and the next generation of devices, take a look at the excellent introduction to Quartz at the **epochelp** site. As well as screenshots of Quartz, you'll find a breakdown of each application and a comparison to ER5. The epochelp database is also worth a look for answers to EPOC Frequently Asked Questions. For more, go to *www.epoc.f2s.com*

The Symbian site at *www.symbian.com* has also undergone a revamp and is worth a look for Quartz and Crystal (see page 39 in this issue) information.

Mirror Mirror

A sad plea from a user with an unusual screen problem...

"What's the difference between a Series 5 and a mirror? In my case, none at all. The right hand 1/4 of the screen of my 5 has become an exact reflection of the left hand 1/4 of the screen. Has anyone come across this before? I am tempted to back it up & do a full reset. BUT, does this mean I'm just backing up the problem or is this a hardware fault?" (mick@macjones.demon.co.uk)


Custom Neve, Solid State Logic SL6056, SL6072, SL4072/G, API 32
Custom A&M/Van Half, Augsperger
Studer A-820, Sony PCM-3348,7030
Tone Code DAT, Mitsubishi X-850
Yamaha Grand, Steinway Grand, Hammond B3 organ
Vintage tube, Sennheiser, AKG, Shure, Electro-Voice
BVU 800, Lynx Sync
Standard including custom A&M A/D,
Find:
Prev
Next
5/26

A couple of other users have reported the same problem, one that normally appears after a machine has taken a dive onto the ground. It's not a software problem, it's an electronic one. Time for a new screen.

Worthy mentions

GEEK.com PDAGeek

Having problems with your Series 7 or netBook? Check out **The 7 Site** at *www.newth.net/psion7/problems.html*

Want to keep up-to-date with mobile device news? **Try PDAGeek**—great site, even better name! *www.geek.com/pdageek*

Hints & Tips

Every item published in this section wins the author TWO free issues added to their subscription!

Multiple browsers

It's well known that you can use (by default) [Fn]+[Enter] on a document file to open multiple instances of an application (usually Word, Data or Sheet). Less well known is that you can use the same trick with Opera in order to have several web browsing sessions going at the same time. This is useful when waiting for a large page to download as you can be reading already-downloaded content from another site instead. Then, when done with the latter, you request your next page and switch back to the original session, by which time that will have been fully rendered.

This can be achieved by saving at least one web page to disk within Opera, such that it appears on the System screen with the Opera icon. Start up Opera normally from the Extras bar, switch to the System screen and then use [Fn]+[Enter] on the saved page to start another instance of the same application. You can see this working by using 'List open files...' on the System screen. You can either use [Fn]+[Shift]+[System] to toggle backwards and forwards between the two running instances or [Ctrl]+[Fn]+[System] to switch through to them from another application. Or, of course, simply select either from the aforementioned 'Open files' list.

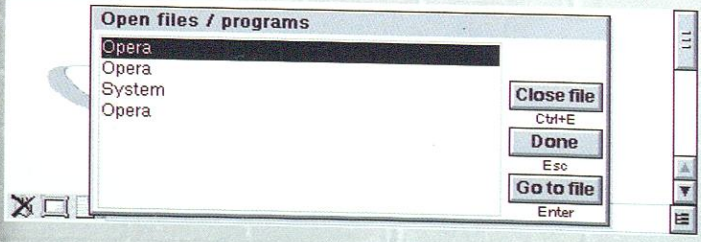
This multi-instance technique is especially useful when downloading a large file, as you can leave it streaming in the background and carry on surfing away in the other session.

The number of open Opera 'windows' is only dependent on the amount of free memory available.

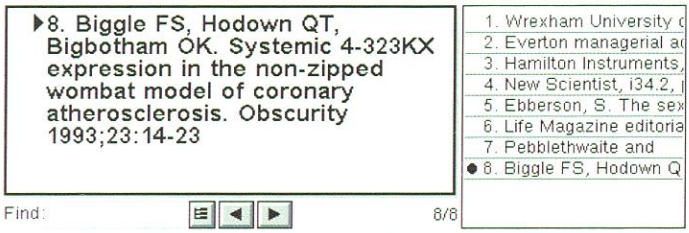
Dewi Williams, Gorey, REPUBLIC OF IRELAND

Free chat software

Do you need to be discreet in a board-room meeting? Or just fancy a bit of fun with a friend? You can use the Comms application (not available on the Revo) as a 'chat' program using your infrared port. First, make sure the serial link is switched off ([Ctrl]+[L] on the System screen). Then, from the Extras bar, tap on Comms. Using



Making maximum use of both bandwidth and time


▶8. Biggle FS, Hodown QT, Bigbotham OK. Systemic 4-323KX expression in the non-zipped wombat model of coronary atherosclerosis. Obscurity 1993;23:14-23
Find:
8/8
1. Wrexham University
2. Everton managerial a
3. Hamilton Instruments,
4. New Scientist, i34.2,
5. Ebberson, S. The sex
6. Life Magazine editoria
7. Pebblethwaite and
8. Biggle FS, Hodown Q

Using Data to keep track of, and export, footnotes

'Tools | Communication settings...', set 'Use comms port' to 'Infrared'. When lined up with another Series 5/5mx, just type and the text should also appear on your friend's or colleague's screen.

Sent in by Psion Technical Support

Handling footnotes

I am a medical researcher who writes papers with a lot of references. One of the problems with Word on the Psion is the lack of auto-numbered end-noting and foot-noting. I have found a workaround, which actually works better than Microsoft Word on the desktop, in the sense that many medical journals insist on electronic submissions being basically plain text files without embedded foot/endnoting. These would have lost any special formatting anyway.

Set up a Data file with a single text field of size 250 characters, labeled with " ". This allows references to be viewed without a space-wasting label field. My references are then typed in or imported from previously created bibliographies, using a leading reference number that can be later quoted in Word. For example, a typical entry might read:

"8. Biggle FS, Hodown QT, Bigbotham OK. Systemic 4-323KX expression in the non-zipped wombat model of coronary atherosclerosis. Obscurity 1993;23:14-23."

As you write in Word, insert the reference as "[number]" (which is what most journals want anyway). For example:

"...In 1993, Biggle and associates in their landmark paper on the wombat model of coronary atherosclerosis [8], remarked..."

When you're ready to make a final draft, sort the database so that the references list by their reference number. You can then export as text from Data and insert into the appropriate appendix in your paper in Word.

Mike Park, via the Internet

Numbered menus

You can jump quickly around menus in all the EPOC palmtops simply by pressing the number key corresponding to the menu card you want. Thus, having already pressed the [Menu] key, you can switch to the fifth menu card along by pressing [5], and so on. This can save several cursor keystrokes in most applications.

Rabi Eaton, Johannesburg, SOUTH AFRICA

Q&A

Get your Psion and EPOC-related questions answered by our editorial panel...

Backed up Email

Q Having dutifully followed the advice in Palmtop magazine to back up all data if the Psion (in my case, the Series 5mx) is sent for repair, it is somewhat disheartening to find on its return that in restoring data to the machine, my backed-up email messages (stored on CompactFlash) are inaccessible, except via poking around in the \System\Mail folder. Even here, they're jumbled up with a load of computer codes.

Peter D Rees, Polegate, East Sussex

A **When we (or Psion) refer to 'backing up', we normally mean using a desktop computer to make an exact replica of a palmtop's disks, using the standard PsiWin Backup functions. It *is* possible to achieve a full and complete backup of files in a \System folder using just a CompactFlash disk, but it requires a little care to ensure that all the right folders are both backed up and later restored again. The 'one-click' operation of desktop backup is a lot more foolproof.**

Our guess is that although you'd manually backed up and restored specific system folders to your CF disk, one or more critical files or folders were omitted at either the backup or restore stage. Just as with other mainstream operating systems, the inner workings of EPOC's System folder are not always obvious (though see our feature 'Inside the System folder' in issue 28 for a walk-through overview), and it's easy to miss a vital index file or database.

If your error was at the restore stage, it may still be possible to overlay the right files onto your internal disk and thereby read all your messages, although you will of course then delete messages which have been received in the meantime.

Frames alert

Q I am using the Psion Series 5 'Classic' and I installed Message Suite version 1.5. Everything works fine generally, but when I am connected to the Internet and go to certain web sites it gives me a message along the lines of 'Your browser is not suitable to view frames. Download Netscape Navigator or Internet Explorer'. Does this mean that Message Suite does not support web sites that use a particular browser? Do I need another browser or is something wrong with Message Suite?

Frank Vondenhoff, Oosterbeek, NETHERLANDS

A **Web sites don't 'use' a particular browser as such: the latter is an application that runs on**

your computer, whether a palmtop or desktop. Sometimes sites are optimised so that they look their best in a particular desktop browser, but you can generally view any site in any browser on a desktop computer. The same is not quite true of palmtop devices, where there's much less computing horsepower and resources available.

Psion's Message Suite included the first EPOC web browser and early versions of it (including v1.5) couldn't display web sites which used 'frames' (areas of the browser window which scroll and act independently). Your best bet is to install Opera, the third party web browser, featured most recently in issue 30 of Palmtop. This will handle frames and a lot more of the features required by modern web sites. See our Palmtop CD or visit *www.opera.com* for the 30-day shareware trial version.

Contacts to Series 3

Q I am currently using a 5mx and would like to have my Contacts database converted so that I have a backup of it on my old Series 3mx. I have tried using 'C2F' (written by Malcolm Bryant and referred to in issues 26 and 28) but with no success. Help!

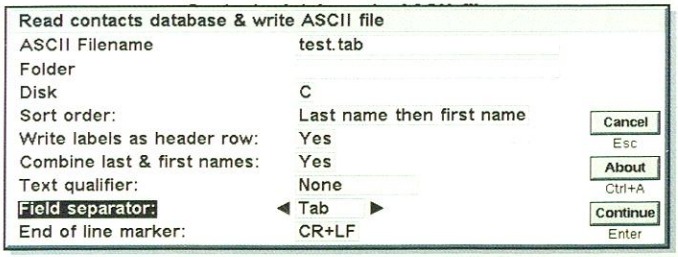
Wessel Brown, Enfield, Middlesex

A **You don't give exact details of where you struck a problem, but essentially the freeware utility C2F converts a Contacts database into a tab or comma-delimited text file, which can be copied (via a desktop computer) over onto a Series 3. The Data application on any of the SIBO palmtops includes very good import options and you'll be able to 'Merge in' your transferred file into a new or existing database. Make sure you use the latest version of C2F (1.09 as we went to press).**

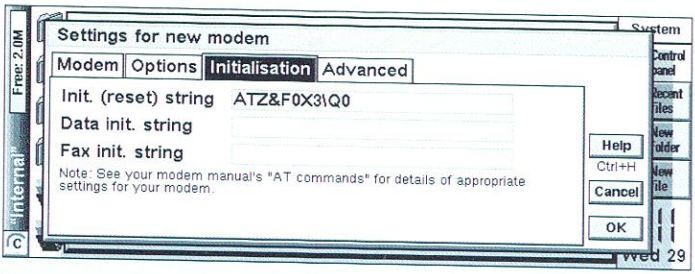
If the conversion process in C2F stops at a particular record, examine the offender in Contacts—you may be able to simplify that record and then convert again, successfully.

Christmas labels

Q Prior to owning my Series 5mx, I used to have a Psion Series 3a. One of the things I purchased for it was Purple Software's DataView Pro which, among other facilities, had a label printing capability. I could print off my whole address book onto standard Avery adhesive labels, making Christmas card envelopes a doddle. I haven't been able to locate a similar program for my 5mx. Does one exist? I'm



Converting a Contacts database into delimited format with the shareware utility C2F



It's important to get the right initialisation string for the model of GSM phone that you're using...

not looking forward to writing out all those envelopes by hand!

Christopher Birrell, London

A **Unfortunately no software currently exists for EPOC that even comes close to the printing functionality of DataView Pro on the Series 3 range. It's curious that no enterprising company has yet produced an easy-to-use EPOC equivalent.**

In the absence of a fully-automated and specific label printing system, you'll have to write the envelopes by hand. Although it's tempting to play around with macros, Word and printer types to achieve the desired result, the amount of your time it's likely to consume will probably far exceed the hour or so that it will take you to write out (for example) 100 envelopes by hand.

Bizarre disconnections

Q I have been using a Series 5 for over a year now, including email with a Siemens S25 phone, and on the whole the experience has been trouble free. However, I have recently encountered a problem which has completely baffled me. I cannot seem to send large attachments. A small Word document is fine, but a two page letter proves too much for Message Suite to handle and the connection with my ISP (psion.net) simply drops. This problem also seems to occur without attachments when I have a lot of text within a message. Is this a limitation with email on a Psion?

Yunus Mulla, Scholes, Holmfirth

A **No, there's not a problem in general with sending and receiving email on a Psion palmtop. Maintaining an Internet connection on any computer relies on complex packets of information being passed backwards and forwards between computer and ISP. At each stage, their transmission and reception is controlled by special handshaking signals. Assuming, as is likely, that the problem's at your end rather than the ISP's, these signals can either be in software (special codes to say 'Stop' or 'Go') or in hardware (using specific pins/wires in the serial link or infrared signals).**

Under ideal circumstances, this handshaking works perfectly and large sets of data packets can be sent and received without problem. But when something goes wrong, and especially when larger amounts of data are involved and the connection is being pushed to its limits, your palmtop and ISP can get out of

step with each other. Often Message Suite's only recourse is to drop the line completely, as you discovered.

Check the initialisation string for your phone's modem, the handshaking used ('Flow control') and other settings, in your Series 5's Control panel. For your S25 try 'ATZ&F0X3\Q0' as the initialisation string, Flow control set to 'Hardware', and DST/DTR and DCD both checked. It's also worth asking other S25 users or Siemens themselves what string(s) and settings they recommend for use with a Psion Series 5. If all else fails, try out a different phone or model, in case there's either a hardware or firmware fault in your phone.

Where's the software?

Q In recent press releases, Symbian have claimed that they have over 35,000 developers working on their operating systems. Why then is there such a paucity of software appearing for EPOC? My friends with Palm handhelds are treated to new commercial applications appearing weekly.

Iain Mallard, Cape Town, SOUTH AFRICA

A **Although the amount of commercial software released has been disappointing in the last six months, there's been a healthy flow of new shareware and freeware, much of which is every bit as useful—see Shareware Shorts in each issue of Palmtop for a detailed round-up. It's also important to bear in mind that most companies tend to 'distort' the truth a little with respect to developer numbers. Symbian claim 35,000, Palm claim 100,000, but all that's reflected by these figures is the number of people who have downloaded their Software Development Kits, usually for the free emulators which normally comprise their core. We'd estimate that only a few percent of these people actually do any serious programming.**

Backlight brightness

Q Does the Series 5mx backlight have a finite lifespan, in which case should I try to minimise its use in order to prolong the life of my palmtop?

Petra Sims, Bristol

A **Traditional electroluminescent backlights, such as that fitted to the Series 5mx, are rated such that their brightness dims by 50% every 'half-life', typically a few hundred hours. Occasional backlight users should therefore notice little degradation over the life of their palmtop, whereas those who use the backlight constantly (perhaps on mains power) will see it getting much dimmer after a year or so of use.**

External disk drive?

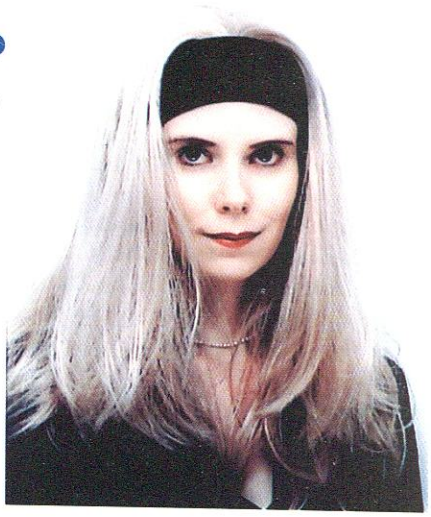
Q Can a CompactFlash card or IBM Microdrive (in a CF card to PC-Card Adaptor) be used with the Psion PC-Card Modem Adaptor, as an external disk drive?

Richard Burgin, Waterlooville, Hampshire

A **Unfortunately not. The Psion PC-Card Modem Adaptor (reviewed in issue 11) will only work with modems. It refuses to communicate with any of the many non-modem perhipherals we've tried.**

Musings...

Debbie Barham takes a satirical look at one of the possible futures of EPOC computing...



My current *bête noire* about pocket-sized devices is that there are now so many of them, I'm compelled to wear several layers of clothing simply to provide the necessary number of pockets to accommodate them all. Given the British climate this isn't such a hardship, but even so, I still need an additional pocket organiser to organise which pocket each of my pocket-sized devices is in.

It's the same with watches: I now possess watches which take photos, play MP3s, pinpoint my exact location, monitor my heart, sync with my laptop, flip TV channels, remember phone numbers and house small Japanese characters which perform bodily functions on the screen and die unaccountably after 48 hours. I also have wrists like iron bars, am re-evolving into a knuckle-dragging chimp and am consistently late because none of my watches actually seems to incorporate anything as outdated as a 'Telling The Time' function.

But as Martin Luther King (or was it Abba?) once said, I have a dream. Of how life would be if someone invented the perfect palmtop. The holy grail of handhelds—one device which seamlessly integrates everything a person could possibly want in a palmtop computer.

What exactly *is* that, though? If I knew, I'd obviously be far too busy having my legs waxed on some luxury tropical-island tax haven to tell you. Actually, I should make a note of that. Integral, retractable Ladyshave—definitely something the killer PDA should boast (perhaps the spare CF slot could double as a hair receptacle?)

This 'Perfect Psion' discussion frequently raises its ugly head in palmtop newsgroups, so here's my two megabytes' worth. Life with the king of all Psions, the (fictional) Series 15mx...

7am My Psion 15mx wakes me with mellow jazz from its in-built digital radio (depending on mood: could also substitute MP3-quality audio of user's choosing: e.g. sound of angry boss, shouts of "Fire! Fire!", noise of tech stocks crashing to wake nervous investors, etc.)

9am Stuck on the train, I use my Psion's GPRS mobile phone to call the office, declaring "yah, I'm on the train". Sadly, even the Psion 15mx does not (yet) incorporate a personal jet-propulsion device or

fold-out mini-helicopter. However, its solid titanium case is robust enough to scrape wet leaves off the train track, and saves the day by getting us moving. Fellow passengers embrace me heartily, enjoying as they do the vibrating sensation of my Psion's integrated pager.

10am Entering my swanky Norman Foster-designed office, I point the Psion 15mx at the security barrier to obtain clearance. A system so faithfully replicating human security guards, it's powered not by batteries but by 48 cups of tea a day.

11am Via Bluetooth, one zap synchronizes my database with a convenient desktop PC (we're all hotdesking now—handy, provided you don't mind being surrounded by framed photos of other peoples' ugly children).

1pm Lunchtime: the Smartmedia slot in the rear of the Psion 15mx doubles as a handy toaster for making fashionably-small sandwiches with wafer-thin pastrami. My colleagues, not possessed of Psion 15mx's, glower into their limp prawn mayos.

1.30pm I rotate the Psion by 90 degrees to read my ebook of the 12th Harry Potter novel (in which the teenage wizard ditches sorcery for the blacker art of new media entrepreneurship, in 'Harry Potter and the Sportswear Start-Up Venture Of Doom').

2pm Back to work: I'm called away from the office, but fortunately the Psion 15mx's retractable inline wheels and dual-action stylus-cum-handlebar attachment transform it swiftly into a trendy Skate Scooter, letting me weave in and out of the traffic while clarifying a few key points over the hands-free telephone.

3.30pm Engrossed in the conversation, I get lost. Until the GPS receiver atop my Psion 15mx puts me back on track, and also allows me to give directions to a group of wandering foreign tourists, ensuring I send them to *precisely* the wrong destination.

4pm Taking a well-earned break, I suddenly remember the dinner party I've agreed to host for the company CEO and his wife. The only edibles in my flat are half a tin of dog food and a yukka plant (even Delia Smith would find that a challenge). But the 15mx immediately text-messages my Smart Fridge to order in ready-prepared gourmet food, while the robotic vacuum cleaner spruces the place up. My boyfriend is, of course, at home and quite capable of doing this himself, but smart appliances are so much more reliable, and only require commands to be punched in *once*.

7pm By booking a taxi via the 15mx's WAP interface (listen, this is fantasy—we can at least *pretend* that WAP has evolved into a functional technology), I'm home well in time to heat my haute cuisine. Meanwhile, I attempt to smarten up the boyfriend by pressing his tie beneath the lid of the 15mx (the Corby Trouser Press Co. now being part of the Symbian conglomerate).

9pm Hark! Is there a full symphony orchestra in my living room? No—just the Psion's mobile ringtone (nothing so cheesy as a bleeped rendition of Waterloo for us 15mx owners). Sadly, my CEO can't make it tonight: profuse apologies, but he still uses Pocket PCs, and his machine crashed with all his diary engagements in it...

Debbie Barham (deb@joke-shop.com) writes regularly for the BBC, the Sun and the London Evening Standard. She is currently working on a cure for gadget-addiction and a new Carlton TV sitcom.

Glossary

Application bar - The touch-sensitive strip along the edge of most EPOC screens, from which selected built-in applications can be launched.

Browser - Application for navigating the World Wide Web, running on any computer platform.

C++ - An efficient high level programming language now used for the majority of commercial EPOC applications. Much harder to learn than OPL, but more powerful and usually gives more compact, faster code.

CF - See **CompactFlash**.

Commercial software - Software produced by full-time programming companies, most often supplied in pre-packaged form.

CompactFlash - Small solid-state memory expansion modules, as used in all current EPOC devices except the Revo. See the 'Inside CompactFlash' feature in issue 17 of *Palmtop*.

Control panel - Invoked by pressing [Crtl]+[S] from the System screen on EPOC devices, showing a list of system control functions such as screen and keyboard settings, printer and dialling preferences, etc.

Crystal - A new category of EPOC communicators featuring half-VGA landscape format screen and full keyboard, due for release sometime in 2001.

Diamond Mako - A rebadged version of the Psion Revo Plus, marketed by SONICBlue in the USA.

Download - To transfer a file from an Internet web site or FTP site onto your palmtop or desktop computer.

EIKON - The 'front end' interface used on all current EPOC devices, that governs the position and appearance of menus, icons, dialog boxes, etc.

Embedding - The act of placing a Spreadsheet, Sketch, Sound object, etc. *within* another EPOC document.

Emulator - A program that mimics the operation of one computer operating system on another. PC-based emulators are available for both SIBO and EPOC devices.

EPOC - Term used to describe the operating system used on the Series 5 range of palmtops and all other current models. Not actually an acronym, EPOC was coined from 'Epoch', being touted as a new 'era' in handheld operating systems.

EPOC Connect - Known to Psion owners as PsiWin, this is the name given to Symbian's connectivity software when bundled with devices such as those made by Ericsson and Oregon Scientific. Functionally almost identical to equivalent PsiWin versions.

ER1/ER2/ER3 - EPOC Release 1/2/3. The first major versions of the EPOC operating system, as employed on the original Series 5 'Classic' and Geofox One.

ER4 - EPOC Release 4. An update of the EPOC operating system employed only (to date) on the Oregon Scientific Osaris.

ER5 - EPOC Release 5. Currently the latest version of EPOC, as used on the Series 5mx, Series 7, netBook, Revo and Ericsson MC218.

ER6 - EPOC Release 6. Due for commercial release sometime in the first half of 2001.

Flash - Another term for 'flash memory' devices, such as **CompactFlash** and flash **SSD**.

Freeware - Software that is supplied or made downloadable free of charge. The author/programmer makes no charge for its use, but usually offers no warranties on its stability or performance.

FTP - File Transfer Protocol. FTP sites are sometimes used instead of World Wide Web (WWW) sites as a repository for files and data and web content. Special 'FTP client' software is required to upload files to FTP sites.

Geofox One - The first non-Psion EPOC device, introduced in late 1997. Geofox ceased trading one year later after selling only around 1000 units. See issue 15 of *Palmtop* for a full review.

a guide to some common technical terms

GPS - Global Positioning System. A GPS receiver is a small handheld device that can pinpoint your physical location anywhere in the world with an accuracy of a few metres, by triangulating its position from military satellites in orbit. Some GPS receivers can be connected to EPOC devices with suitable software and cables. See issue 19 for most recent coverage in *Palmtop*.

GSM - Global System for Mobile telecommunications. A widely adopted worldwide communications standard for mobile telephones. Largely absent within the USA.

GUI - Graphical User Interface, such as the EIKON system used on EPOC devices, utilising windows, icons, menus, etc. Was preceded by the Command Line Interface (CLI), as used on DOS-based PCs of the 1970-80s.

Honda connector - The small flat connector used to plug an RS232 (Serial) cable into current EPOC devices.

HTML - HyperText Markup Language. The simple scripting system used to create World Wide Web (WWW) pages.

Icon bar - See **application bar**.

Infrared - Wireless communication technique used to transfer data between suitably equipped palmtops and printers/modems, etc. All EPOC devices are equipped with infrared capability.

IrDA - Infrared Data Association. A group set up to form standards for infrared data exchange, and the term used to describe the resulting standard currently employed. All EPOC devices conform to the IrDA standard, but earlier infrared-equipped Psion Series 3 devices do not, and are thus normally unable to communicate with other IrDA devices.

ISP - Internet Service Provider. Companies set up to provide Internet access via a dial-up system.

Java - A high level programming language designed to create programs that will run, without modification, on several computing platforms, such as PC, Macintosh, Unix and EPOC. See *Palmtop* issues 25-27 for a detailed feature on Java.

Javascript - An interpreted programming language, often used to add extra functions to web pages, such as interactive buttons and pop-up menus.

MacConnect - Psion's nearest EPOC equivalent to PsiWin for the Apple Macintosh, but offering only backup, restore and software installation, with no file conversions or synchronization.

Macro - A series of keystrokes, 'recorded' and 'played back' by a suitable utility program to automate commonly-performed tasks.

MBM - Multi BitMap. EPOC's standard picture format.

MC218 - Ericsson's 'clone' of the Series 5mx. Fully compatible with the Series 5mx and capable of running all software designed for the Series 5 range. Reviewed in *Palmtop* issue 24 and 26.

Message Suite - Psion's combined Email and Web applications for the Series 5 'Classic'.

Modem - Modulator/demodulator. Device used to convert computer data to/from audible pulses that can be transmitted down a conventional telephone line. Required for Internet access from a palmtop.

netBook - Psion's 'vertical market' variant of the Series 7, with more memory and a faster processor. Featured in *Palmtop* issue 27.

Null modem adaptor - small box/connector used to connect two computers or devices such as a modem via an RS232 (Serial) cable by transposing the send/receive wires.

Object - Spreadsheets, Sketches, Sound files, etc. that are *embedded* within another EPOC document. See **embedding**.

OPL - Organiser Programming Language. The BASIC-like high level programming language built into most Psion devices.

OPX - An extension to OPL, providing extra functionality under EPOC.

Osaris - EPOC device produced by Oregon Scientific in 1999. The Osaris will not run many

EPOC programs due to its small (320x200 pixel) screen. Reviewed in *Palmtop* issue 24 and 26.

Palmtop CD - PC and Macintosh compatible CD-ROM supplied free with *Palmtop* magazine subscriptions and containing virtually all non-commercial Psion-related software ever produced.

Parallel link - Cable for connecting EPOC computers to standard Parallel (Centronics) sockets as found on most PC-compatible printers.

PC-Card adaptor - Psion adaptor to allow connection to PC-Card modems, etc. Reviewed in *Palmtop* issue 11.

PCMCIA Card - Now known simply as 'PC-Card'.

Pearl - New category of EPOC smart-phones, due for release in 2001.

Pixel - Term derived from 'picture element'. Refers to a single 'dot' on a computer screen.

POP3 - A common Internet mail protocol for downloading messages.

PsiMac - Psion's nearest Series 3 (SIBO) equivalent to PsiWin for the Apple Macintosh, but offering only backup, restore and software installation, plus Word and Sheet conversion.

Psion Organiser - Term coined with the appearance of Psion's first handheld 'organiser' device in 1984.

PsiWin - PC-based software that allows backup/restore, software installation, conversion of files and synchronization of certain data between Psion/EPOC devices and PCs.

Quartz - New category of EPOC devices featuring keyboardless operation, due for release next year.

RAM - Random Access Memory.

Revo - The Revo was introduced in late 1999 as a cut-down and compact Series 5-like machine, with a non-backlit screen and no memory expansion capability.

Revo Plus - Introduced in September 2000, with double the memory (16MB) of the original Revo, plus Psion WAP and Opera web browsers included on CD.

ROM - Read Only Memory.

RS232 - Long-standing serial communications standard used for cable connections between all Psion/EPOC devices and desktop computers.

RTF - Rich Text Format. A common word processor file format supported by many word processing programs, and built into Psion Series 3 devices as a standard saveable/readable format.

SDK - Software Development Kit. A set of tools used for programming.

Serial cable - See **RS232**.

Series 3 - The first range of Psion palmtops to feature a QWERTY keyboard. First introduced in 1991, later models were the 3a, 3c and 3mx, with the 3mx finally discontinued in late 1999.

Series 5 - The first Psion palmtops to feature the EPOC operating system, introduced in mid-1997. The original Series 5 was later dubbed the Series 5 'Classic'.

Series 5mx - Introduced in mid-1999 as a replacement to the original Series 5, with double the memory (16MB) and several software enhancements.

Series 7 - Introduced in late 1999 as a handheld/laptop hybrid, featuring colour screen and both CF and PC-Card expansion slots. Reviewed in *Palmtop* issue 25 and 27.

Shareware - Software that can be freely copied or downloaded for a fixed evaluation period, after which the software should be paid for. Shareware 'registration' fees generally range from £5-£25.

SIBO - Now refers to the operating system used by the Series 3 range of Psion palmtops. An acronym of 'SIngle Board Organiser'.

Siena - Introduced in 1996 as a cut down Series 3 device with a half-width screen and no memory expansion capabilities.

Silk-screen - The touch-sensitive area around the screen edge of EPOC devices, includes the menu, infrared, clipboard and zoom command icons.

SIS - Software Installation System. A means of installing software to an EPOC device via a single, self-extracting file.

SMS - Short Messaging Service. Used to send text messages up to 160 characters in length via the GSM telephone network.

SMTP - Simple Mail Transfer Protocol. A common Internet mail protocol for sending messages.

SSD - Solid State Disk. Proprietary storage 'card' devices used to expand the capacity of the Series 3 range of palmtops.

SSL - Secure Sockets Layer. A system of encrytion for web pages, often used for web-based money transactions.

Symbian - A joint venture between Psion, Nokia, Ericsson, Motorola and other major telecommunications/computing companies to develop the EPOC standard and its derivatives.

System folder - A hidden folder present on all EPOC devices and containing numerous system settings/configuration files and all installed add-on software. See 'Inside the System folder' in *Palmtop* issue 28 for more details.

System screen - The equivalent of a PC 'desktop' on Psion/EPOC devices. Accessed from EPOC by tapping the 'System' silk-screen icon.

Toolbar - The strip of software buttons present down one side of the screen within most EPOC applications.

UID - Each EPOC application should have a unique identifier, which is a 32-bit number that software developers request from Symbian. Use of a UID ensures that files associated with the application are correctly recognised by EPOC.

Unique id - The unique serial number assigned to each individual EPOC machine. Can be found under 'Information | Machine...' from the System screen. Some software authors tie their registration codes to Unique id numbers, in an attempt to prevent unauthorised copying.

Upload - To transfer a file to an Internet web site or FTP site from your palmtop or desktop computer.

URL - Uniform Resource Locator. Essentially the unique address of an Internet web or FTP site.

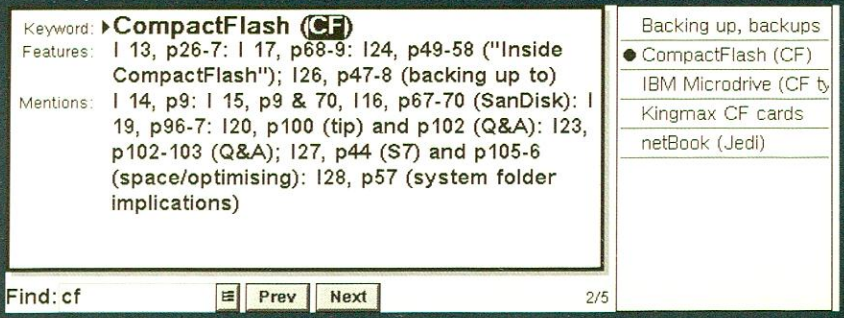
WAP - Wireless Application Protocol. A system for delivery of limited Internet content to handheld devices.

Web - Abbreviated form of 'World Wide Web', the graphical system of hypertext pages published on the Internet.

Zip - A compressed file format used widely on PCs and commonly adopted on Psion/EPOC devices.

DON'T FORGET THE PALMTOP INDEX!

For a more comprehensive list of article cross-references, see the Palmtop index, supplied on all Palmtop CDs, or freely downloadable from *www.palmtop.co.uk* .


Keyword: CompactFlash (CF)
Features: I 13, p26-7: I 17, p68-9: I24, p49-58 ("Inside CompactFlash"); I26, p47-8 (backing up to)
Mentions: I 14, p9: I 15, p9 & 70, I16, p67-70 (SanDisk): I 19, p96-7: I20, p100 (tip) and p102 (Q&A): I23, p102-103 (Q&A); I27, p44 (S7) and p105-6 (space/optimising): I28, p57 (system folder implications)
Find: cf
Prev
Next
2/5
Backing up, backups
CompactFlash (CF)
IBM Microdrive (CF t
Kingmax CF cards
netBook (Jedi)

Usenet Groups, etc.

comp.sys.psion.announce
comp.sys.psion.misc
comp.sys.psion.comm
comp.sys.psion.apps
comp.sys.psion.programmer
comp.sys.psion.marketplace
comp.sys.psion.reviews

These newsgroups are the unmoderated discussion groups on the Internet. It's easiest to access them via a desktop machine using Microsoft or Netscape web browsers (choose 'Read newsgroups' or similar on their menu), but there's now also a dedicated EPOC newsreader, RMRNews, which you can download from *www.rmrsoft.com* .

There are also digests, with daily messages sent by email. Subscribe at *www.pinkworks.com/pda/s5list.html* .

Linux users can find a Linux Psion mailing list at *linux-psion@geekstuff.co.uk* and more Psion-related information at *ftp://ftp.to.com/pub/psion* .

Proprietary discussion forums

AOL - Psion Noticeboard	Psion/General noticeboard - Keyword: Psion
CiX Psion conference	join psion join cixed

Psion-related software

3-Lib	*3lib.ukonline.co.uk*
CiX	'join psion', then look in '/files' and '/s5_files' file lists
EPOC Software	*www.epocsoftware.com*
Plus, of course, the Palmtop CD	See page 140.

Psion FAQ

The Series 3 and Series 5 Frequently Asked Questions documents contain useful information, facts, names, addresses and numbers:

www.geocities.com/SiliconValley/8130/faq.htm

Information

3 For All	*go.to/3forall*
3-Lib	*3lib.ukonline.co.uk*
Armlink	*www.armlink.ndirect.co.uk*
Palmtop magazine	*www.palmtop.co.uk*
PocketInfo	*www.pocketinfo.org*
Psion	*www.psion.com*
Symbian	*www.symbian.com*

News

EPOC City	*www.epoccity.com*
EPOC Zone	*www.epoczone.com*
PDA News	*news.tucows.com/pdanews*
Portal PDA	*www.portal-pda.com*
Widget News	*www.widget.com*

Software houses

Atelier	*www.ateliersoftware.com*
Beelogic	*www.beelogic.com*
Ben Vaughan Software	*www.bjv.btinternet.co.uk*
FreEPOC	*www.freepoc.de*
Neuon	*www.neuon.com*
Palmtime	*www.shoresystems.net/palmtime*
PalmTop Software	*www.palmtopsoftware.com*
PocketIQ	*www.pocketiq.com*
Purple Software	*www.purplesoft.com*
RMR Software	*www.rmrsoft.com*
Widget Software	*www.widget.co.uk*

Miscellaneous

Directory of software authors	*3lib.ukonline.co.uk/authors.htm*
FoxPop	*www.foxpop.ndirect.co.uk*
Go32	*www.go32.com*
Online with your Psion	*homepages.ihug.co.nz/~jochens*
Revoworld	*www.revoworld.com*

Search engines

Googol	*www.googol.net*
Psion Websearches	*psion.websearches.net*

Problems with your Psion?

Here are some useful guidelines if you think you may have a problem with your Psion palmtop:

Things to check

Before even thinking of picking up the phone, make sure you've checked the following, if only to save your own embarrassment if it turns out to be something easy to solve:

- Are the batteries OK? The Psion's own battery information option (from the System screen menu) will give you an indication of their health, otherwise you might want to invest in a cheap battery tester. If in doubt, replace them with brand new alkaline batteries. Note that rechargeable batteries have a much shorter life and do not always give accurate readings with the Psion's built-in battery checker.
- If the screen appears to be faulty, it could be that the contrast just needs adjusting. If set to minimum you will have a blank screen, whereas a maximum setting will give you an all-black screen. To adjust the contrast on a Series 3, hold down [Psion]+[.], on EPOC machines, it's [Fn]+[.]. If the touch screen is misbehaving, go into System's 'Control panel | Screen' and recalibrate.
- A common problem with the Series 5/5mx is a stuck stylus. To reset the mechanism, gently pull on the lip on the underside of the case, just below the RS-232 connector (or see *Palmtop* issue 15, page 86).
- Have you tried resetting the Psion? If it's still possible to back up the unit, do so again unless you already have a very recent backup. Then try a 'soft' reset. If that doesn't sort things out, try a 'hard' reset (see the manual for details on how to do this). If neither of these work, it's worth unhooking all cables, removing all the batteries (AAs *and* the backup cell) plus any SSD or CompactFlash, and leaving the unit for 30 minutes. Put the batteries back in and try again, restoring your data if the Psion comes back to life.

Checks complete, but the fault is still there?

If all the above advice fails to help, it's best to contact the experts. If outside the UK, you'll have to contact your local distributors for support options. You can find a list of worldwide service agents at *www.psion.com/international*. If within the UK, read on...

Machine repairs

If your machine has developed a hardware fault, you may find that your supplier (particularly if a High Street store) has an arrangement for replacing your faulty machine. However, most people get their units repaired either by Psion themselves or by POS Ltd. If your Psion is still covered by the 12-month warranty, you should definitely contact Psion. If it is older than a year then you have a choice, although prices are generally similar between the two.

Repairs by Psion

The Psion Repair Centre can be contacted by telephone on 0208 575 9919, or by email at *uk-repair@psion.com*

If in the UK, send the broken palmtop by Registered post or by courier, to:

Psion UK Repair Centre
Unit 6 Derby Road
Metropolitan Centre
Greenford
Middlesex UB6 8U

If using a Psion Enterprise product, such as a netBook, see *www.enterprise.psion.com/public/instruct.htm* for their current return procedure.

Psion *do not* guarantee to save data that may already be on your machine, so it is important to back up your data first if at all possible. You should remove the batteries (if your data is safe), stylus and SSDs/CFs. Package the machine securely, and enclose a covering letter describing the fault, remembering to supply a daytime phone number and return address.

Remember to keep a note of your machine's serial number, most commonly found beneath the SSD/CF disk door, as you may need to quote this if contacting Psion.

Attach some proof of purchase if you expect the repair to be under warranty. Psion will acknowledge receipt of the palmtop into their system, billing you if the repair is chargeable, and will usually return the fixed unit within about a week, by courier.

Repairs by POS Ltd

POS Ltd. offer a similar postal service, plus 'while you wait' repairs at their high street shop at 143 Streatham High Road, London SW16 6EG. Providing you've booked an appointment, repairs can generally be done on the spot in 1-2 hours.

Telephone POS Ltd. on 0208 677 9246 or see *www.posltd.com* for further details.

Technical support

If you have a software or operational problem, you may wish to contact Psion's Technical Support department. You can do this by email via their web site or, in the UK, call the premium rate support service on 0906 554 0000. See *www.psion.com/support/support_info.asp* for prices and other support options. Before calling, consult your manual, or the Support Knowledgebase at *www.psion.com/support* for answers to common questions.

Alternative support

As an alternative to Psion's own support, you may like to try either POS Ltd (details given above) or pSIONMAN, as advertised on page 136 of this issue.

Psion/EPOC models at a glance

Maker	Model	Year launched	Original price (inc VAT)	Memory	Operating system
Psion	Organiser I	1984	£99	2K	Psion
Psion	Organiser II CM	1986	£99	8K	Psion
Psion	Organiser II XP	1986	£139	16K/32K	Psion
Psion	Organiser II LZ	1988	£149/189	32K/64K	Psion
Psion	MC200	1989	£495	128K	SIBO
Psion	MC400/Word	1989	£695	256K	SIBO
Psion	MC600	1989	£1295	768K	DOS 3.2
Psion	Series 3	1991	£199/£249	128K/256K	SIBO
Psion	Series 3a	1993	£279/£329	256K/512K	SIBO
Psion	Series 3a	1995	£339/£399	1MB/2MB	SIBO
Psion	Workabout	1995	Various	Various	SIBO and custom
Psion	Series 3c	1996	£339/£399	1MB/2MB	SIBO
Psion	Siena	1996	£169/£229	512K/1MB	SIBO
Psion	Series 5	1997	£439/£499	4MB/8MB	EPOC
Geofox	Geofox One	1997	£385/£599	4MB/16MB	EPOC
Psion	Series 3mx	1998	£269	2MB	SIBO
Psion	Workabout mx	1998	Various	Various	SIBO and custom
Psion	Series 5mx	1999	£429	16MB	EPOC
Ericsson	MC218	1999	£479	16MB	EPOC
Oregon Scientific	Osaris	1999	£219/£279	4MB/8MB	EPOC
Psion	Series 7	1999	£699	16MB, upgradeable to 32MB	EPOC
Psion Enterprise	netBook	1999	£995	32MB, upgradeable to 64MB	EPOC
Psion	Revo	1999	£299	8MB	EPOC
Psion	Revo Plus / Diamond Mako	2000	£299	16MB	EPOC

Processor type/speed	Screen	Expansion options	Infrared
	16-character single line	2 'datapak' slots	No
HD6303X/0.92Mhz	16-character, 2 line	2 'datapak' slots	No
HD6303X/0.92Mhz	16-character, 2 line	2 'datapak' slots	No
HD6303X/0.92Mhz	20-character, 4 line	2 'datapak' slots	No
80C86/7.68Mhz	640 x 200	4 SSD slots, one with upgradable OS	No
80C86/7.68Mhz	640 x 400	4 SSD slots, one with upgradable OS	No
80C86/7.68Mhz	640 x 200	1MB 'internal' disk, OS in flash RAM	No
NEC V30/3.84Mhz	240 x 80	2 SSD slots	No
NEC V30H/7.68Mhz	480 x 160	2 SSD slots	No
NEC V30H/7.68Mhz	480 x 160	2 SSD slots	No
NEC V30H/7.68Mhz	240 x 100 backlit	2 internal SSD slots	No
NEC V30H/7.68Mhz	480 x 160 (later backlit)	2 SSD slots	Yes
NEC V30H/7.68Mhz	240 x 160	External (optional) SSD drive	Yes
ARM 710/18.43Mhz	640 x 240, backlit, touch sensitive	CompactFlash slot	Yes
ARM 710/18.43Mhz	640 x 320, backlit	PC-Card slot	Yes
NEC V30MX/27.68Mhz	480 x 160, backlit	2 SSD slots	Yes
NEC V30MX/27.68Mhz	240 x 100 backlit	2 internal SSD slots	Yes
ARM 710T/36.86Mhz	640 x 240, backlit, touch sensitive	CompactFlash slot	Yes
ARM 710T/36.86Mhz	640 x 240, backlit, touch sensitive	CompactFlash slot	Yes
CL-PS7111/18.43Mhz	320 x 200, backlit, touch sensitive	CompactFlash slot	Yes
StrongArm SA-1100 /130Mhz	640 x 480 colour, backlit, touch sensitive	CompactFlash and PC-Card slots	Yes
StrongArm SA-1100 /190Mhz	640 x 480 colour, backlit, touch sensitive	CompactFlash and PC-Card slots	Yes
ARM 710T/36.86Mhz	480 x 160, touch sensitive	None	Yes
ARM 710T/36.86Mhz	480 x 160, touch sensitive	None	Yes

Using the Palmtop CD-ROM

- **Windows** users who receive the CD should double-click on the file 'Start.htm'. On most PCs the web browser will leap into life and display the CD interface. If nothing happens, or if Windows asks how the file should be displayed, cancel the operation and install a 'web browser' application such as Microsoft Internet Explorer or Netscape (these can be found on almost all PC magazine cover CDs). After installation, try double-clicking on 'Start.htm' again.

  Please note that your operating system may set all files retrieved from the CD to 'Read-only'. This shouldn't cause a problem for 99% of applications, but you may have to manually change file properties (e.g. use [Control]+[P] on the EPOC machine) if you have problems with running or removing software.

  Those who install a new web browser should note that it often comes with its default start page set to the maker's web site, meaning that it tries to go online. Just go into its 'View|Options' dialog (or similar) and set the start page to a file local to your computer (e.g. the *Palmtop* CD Start.htm file).

- **Macintosh** users should simply drag the 'start.htm' file onto their web browser, where it will load the interface just as on a PC. Please note that PsiWin is designed to run on PCs, so it will not work directly on your Mac. Recent CDs also come with a Mac-specific start page.

- **DOS** and **Amiga** owners may be restricted in what they can view on the CD, but will still be able to browse the library section and copy off the software as needed.

- Users of **RISC OS** machines have had a few problems with the 'Joliet' format used on the Palmtop CD-ROM. Fortunately that has now been resolved, and users of those machines can now access all of the web sites on the CD without getting error messages (although they obviously won't be able to run any of the applications). All that's needed is a copy of Warm Silence Software's CDROMFS. For more details, contact Warm Silence Software Ltd, PO Box 28, Woodstock, Oxfordshire, OX20 1XX. tel: 0585 487642, fax: 01608 737172 or see their web site at *www.wss.co.uk*.

  RISC OS users will also find that the copy of the ArmLink web site on the CD contains PsiFS, a free application they can use to transfer files between their palmtop and desktop machines.

- **Linux** users should mount the CD on their computer and open their web browser on the 'Start.htm' file. PsiWin is of course designed to run on PCs, so will not work directly under Linux.

FOR SALE, WANTED, ETC...

Subject to available space this personal classified advertisement page is available free of charge as a courtesy to subscribers. It can only be used for Psion-related items. Please contact the Editor (see page 1 for address details) directly to submit your ads.

This service is not available to non-subscribers, nor to Psion dealers. We bear no liability for items bought or sold from this page.

For Sale

Psion 56k Travel Modem with GSM cable voucher - £80, Series 3/3a/3c/3mx software: Scrabble - £15, Games Deluxe - £10, Paint & Compose - £10, Tool Kit 2 - £10, Nicholson London Pages (on floppy disk) - £5, Chomper (Pacman, on floppy disk) - £5.
Contact Ian on 07970 802312

For Psion 3a: 3 x 2mb Flash SSDs - £35 each, 3Fax Modem - £35 ono, 3Link Parallel Printer Interface (cable/connector) - £8 ono, 3Link RS232 Serial Interface (3a/PC link) - £20 ono, Series 3 Money - £10 ono, Autoroute Express - £10 ono, Series 3 Tools - £5 ono, Series 3 Hugh Johnson's Wine Guide - £5 ono. Also for Organiser II: SilverTree Paralink (Print direct from Organiser II to parallel printer) - £5, Widget Filemaster - £5, Psion Comms Link (RS232) plus Apricot adaptor - £5
Email mikebagshaw@psion.net (Berkshire)

340MB IBM Microdrive for Series 7.netBook - £250
Contact: lewis@hartman14.freeserve.co.uk

Psion 3a 1MB, Widget desk stand, 2 x UK mains adaptor, US mains adaptor, Flash disks: 2 x 128K, 1 x 256K, PsiWin with 2 x 3Link cables, modem adaptor, Widget WinLink and Agenda Link software, 3Fax software on flash disk, Act! for Psion v1, Mark Webb's 'Total! Psion beginners' book - £75
Contact: Ian on 01932 856971
Email: ian.bonnett@virgin.net

Psion Organiser 3a 2MB with Dixons insurance - £80, Psiwin 2.0 with cable - £10, spare part lead (PC end) - £2, Programming manual - £2, Purple Software 3a Chess - £4, 3a Games - £4.
Contact: David Berg on 07885 965979
Email: davidberg@totalise.co.uk

Old-style Psion Travel Modem (works with 3c/3mx, 5, 5mx, Series 7) - £45.
Contact: John Wallis during office hours Mon-Friday 020 7944 4006.
Email: prox7946@ldproxy.com

Ericsson Mobile Office with D127 Infrared modem - £30
Email: grahamhn@windward99.f9.co.uk

Psion 3a (2MB) - (one hinge broken, but opens OK), leather case, mains adaptor. Cyclone floppy disk drive for 3a (with File Manager software) with mains adaptor, PsiWin cables, manual & software, Parallel printer interface cable - 3 link. Offers for the lot or may sell separately.
Contact: Mark Blackmore on 01392 211344 or 07973 613240 (mobile)
Email: md.blackmore@btinternet.com

Psion Series 3c manual - £5 plus postage
Contact: remembergoats@eidosnet.co.uk

Series 3a (512K), 3 Fax pocket modem, leather case, zip case, power supply, serial link (2), Parallel Link, Telenote (SMS) Link, PsiWin 1.0, Money, Widget Tools, Wine Guide '94, Berlitz Phrase Book, DataDeluxe, Dataview Pro, 3 Base, Expense Tracker, Autoroute Express UK, Monopoly, Time-base 6, Paint & Compose, Time Manager, 512K RAM SSD, 1MB RAM SSD, 128K Flash SSD (2 off), 2MB Flash SSD, 4MB Flash SSD, '100 Most FAQs' book, Copernicus Quick Reference Guide. No reasonable offer refused!
Contact: Robert Owen on 01992 584739
Email: rcwo@compuserve.com

Psion Revo (8MB). Two years' Mastercare Coverplan transferable to new owner - £140. Psion Series 3a (2MB) in Limited Edition walnut case with PsiWin 1.1, parallel link, serial link, 128K RAM SSD, 256K Flash SSD, AutoRoute Express (UK & Ireland), Personal Accounts & Expenses, Widget Quick Reference Guide, Programming manual, two Widget desk stands, soft leather case - £100.
Contact: Bill Chesshyre on 020 7515 0607
Email: chesshyre@onetel.net.uk

2MB Psion 3a, leather case, mains adaptor, 256K flash SSD, 1MB flash SSD, Games 3a SSD, Psion Money SSD, all manuals, issues 1-12 of Palmtop magazine in binders - £80 ono.
Email: duxbury@ntlworld.com

Psion MC400 (MC Word) laptop with 512K flash SSD, spreadsheet SSD, Spell Checker and Thesaurus SSD, deluxe leather carrying case, mains adaptor and serial cables - £180, Psion Series 3a (2MB) with leather case - £60, Psion Series 3c (2MB - backlit) with silver custom shell and leather case - £70.
Contact: Steve on 01869 246185 (office hours)

Are you an EPOC user in Bedfordshire, Buckinghamshire or Hertfordshire?

Having a problem or just want to talk about Psions? Give me a ring and unleash the full potential of these great little machines. Friendly advice, Psion user for 10 years.

Phone me (Philip Rutt) on 0802 354759 or email philiprutt@greasyfingers.demon.co.uk

The complete solution for Psion users...

local service...worldwide local service...worldwide local service...worldwide

- ☑ **Specialist advice, sales and support for the full range of Psion machines, for both the individual and corporate user**
- ☑ **Full range of accessories, from infrared modems to 1GB CF drives**
- ☑ **Full range of adaptors, cables and software**
- ☑ **Mobile communications for most PDAs, via cable or IR dataphone**
- ☑ **GPS units, software and connectivity to Psion Series 5 and Series 7 from stock**
- ☑ **Official distributor for all Covertec products, from the proven range of rugged belt cases to the stylish and exclusive Covertec Deluxe wallets - the ultimate case for every occasion**
- ☑ **Next day a.m. delivery (UK) subject to availability**
- ☑ **Fully insured express and courier services available to most worldwide destinations**

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EXPORTECH

local service...worldwide local service...worldwide local service...worldwide

PEGASUS III 56k V.90 modem

- Compact lightweight modem for Psion users
- Built-in NIMH battery pack
- PC kit included—works with 3/3c/3mx/5/5mx/7
- Data throughput to115kbps, fax to 14.4 kbps
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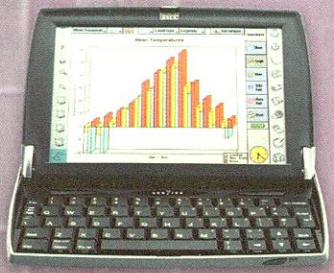

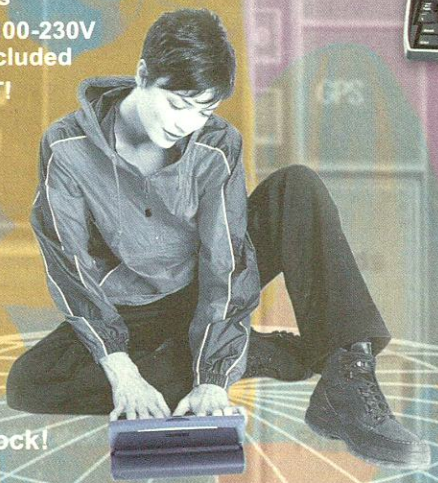

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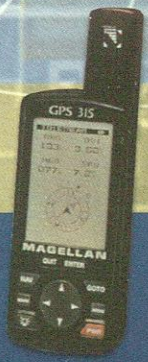

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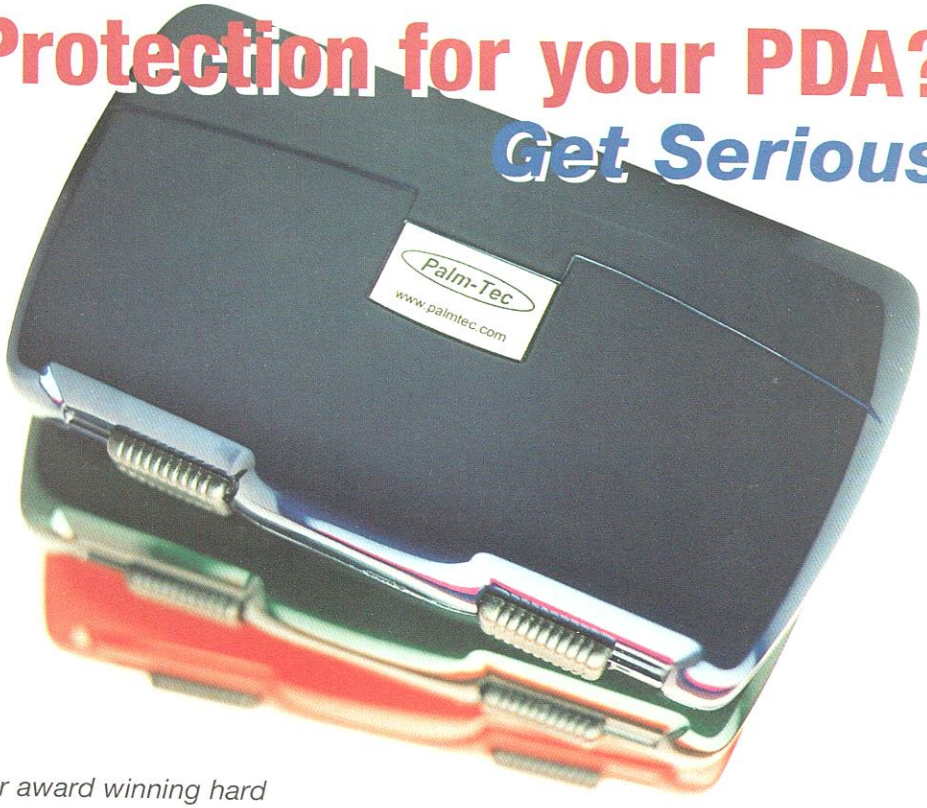

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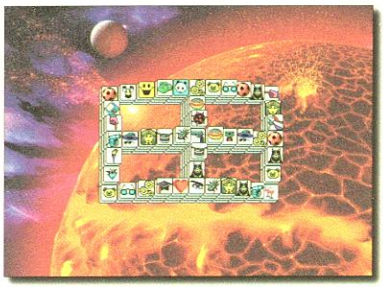

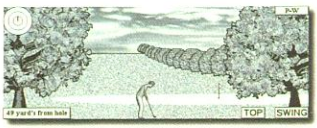

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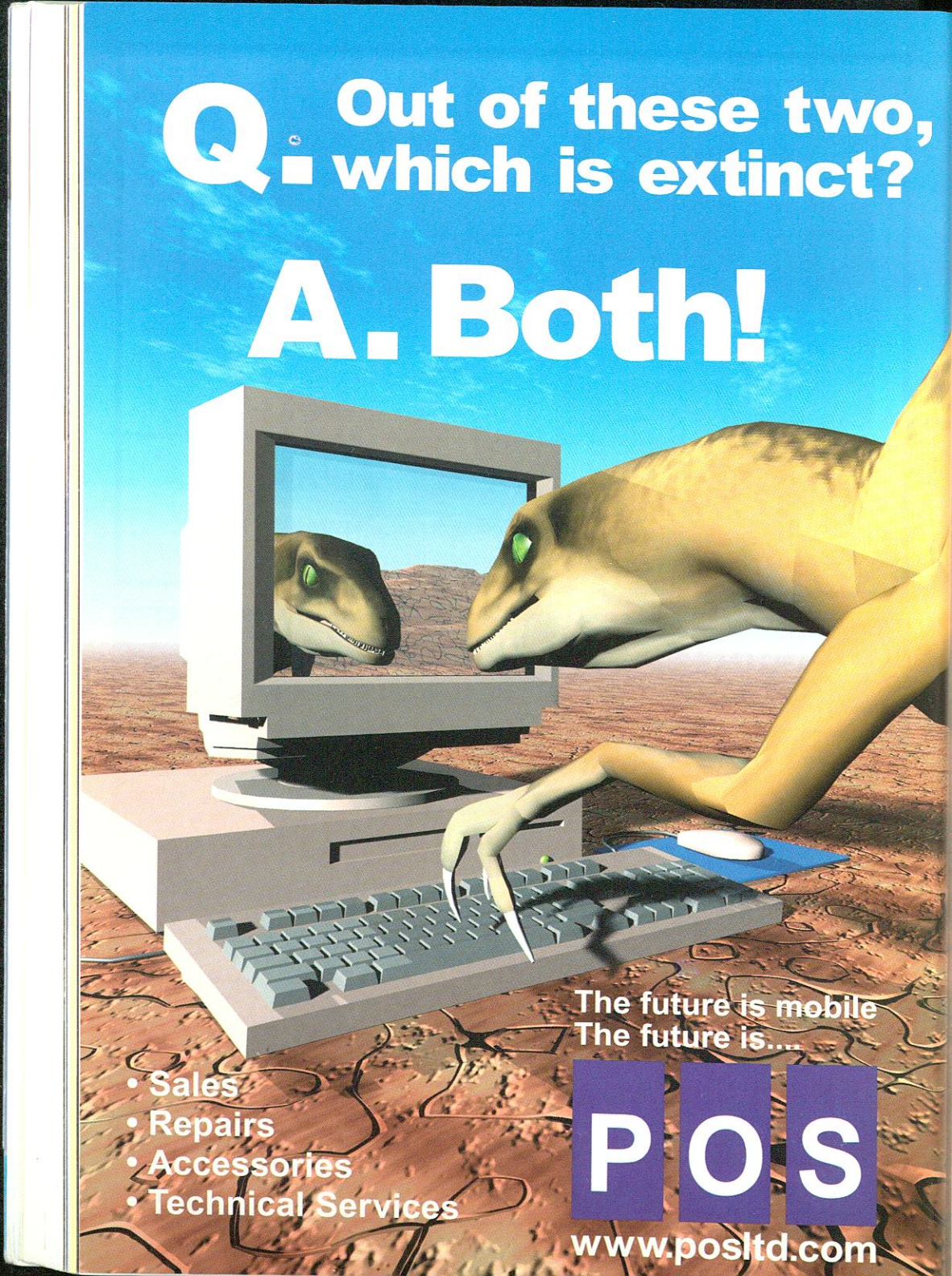
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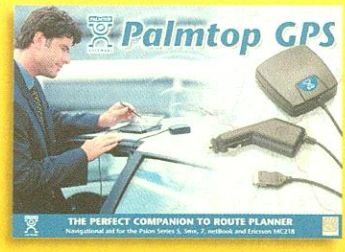

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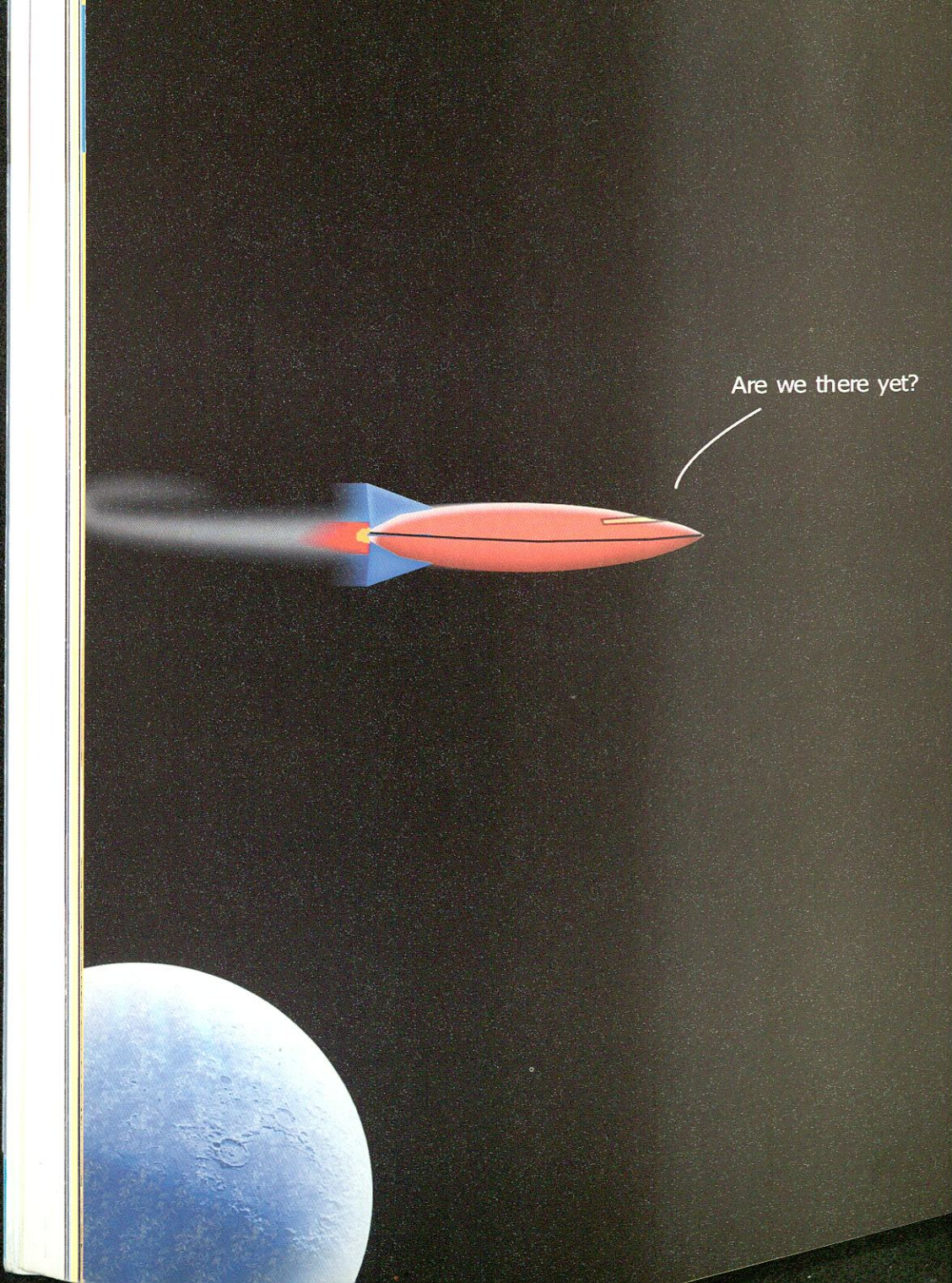
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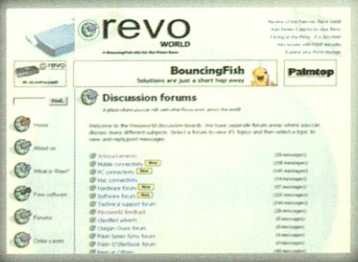
News, reviews...



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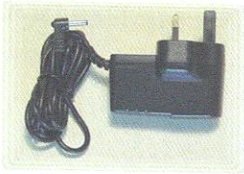

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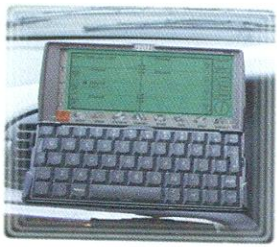

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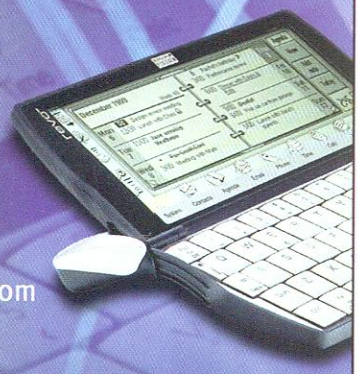

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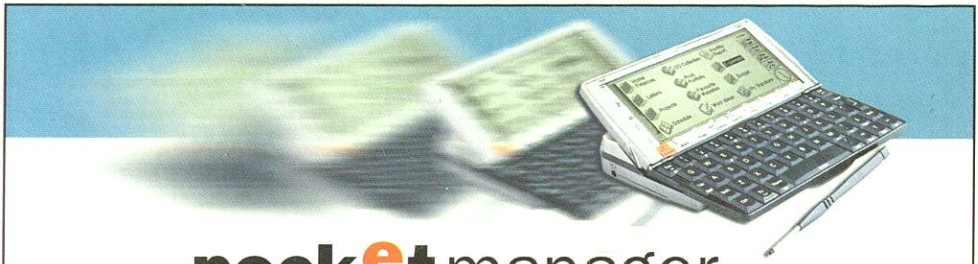

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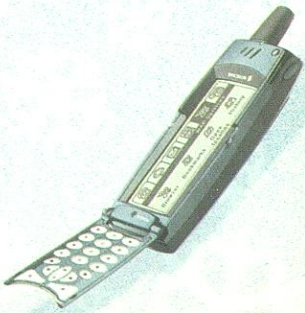

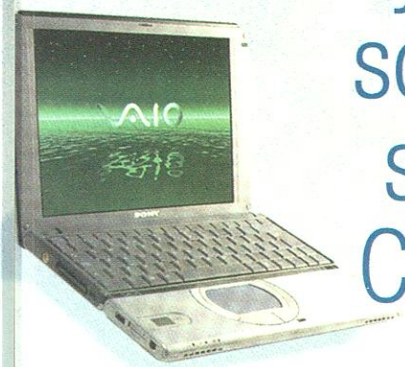

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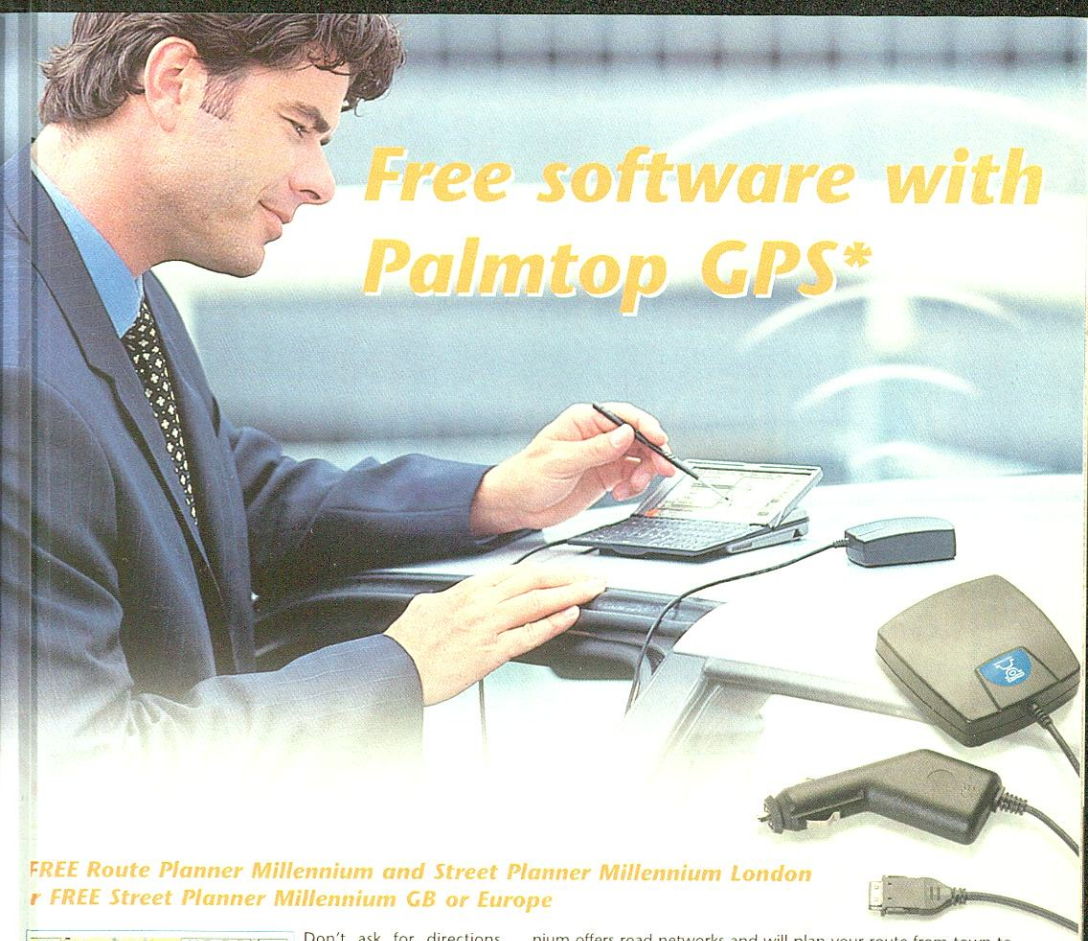
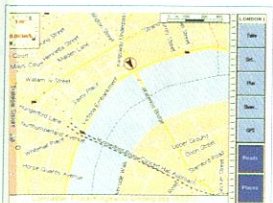


FREE Route Planner Millennium and Street Planner Millennium London r FREE Street Planner Millennium GB or Europe



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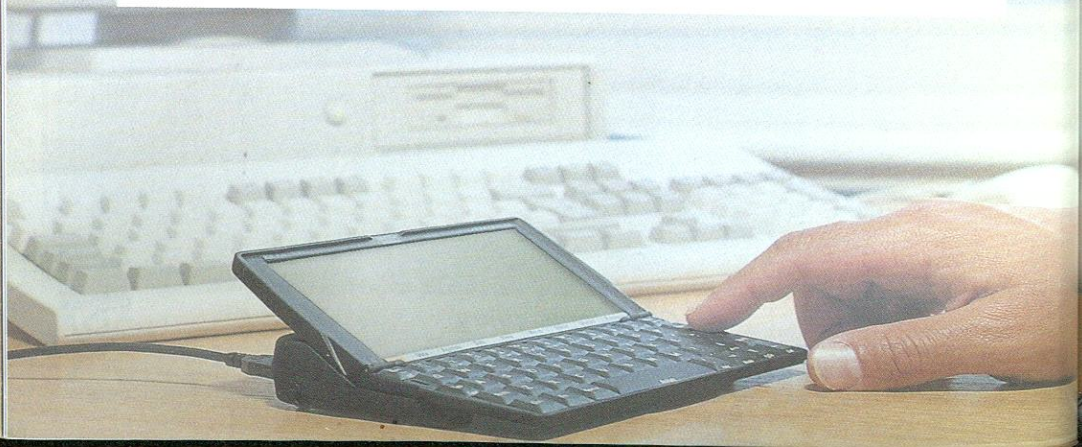

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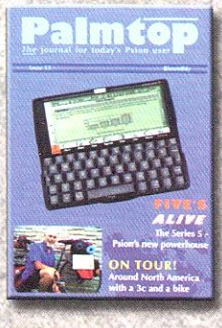

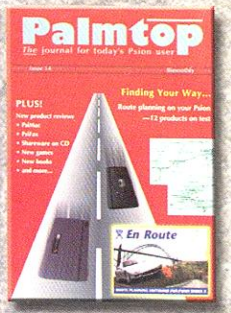

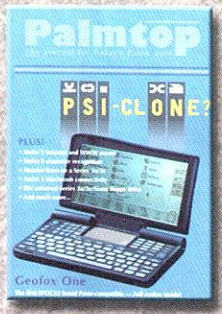

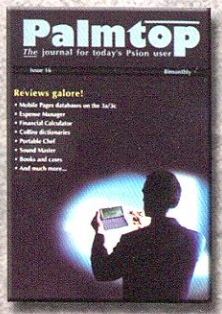

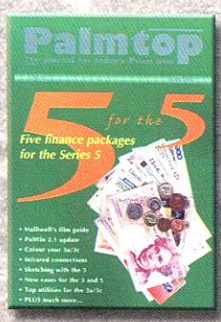
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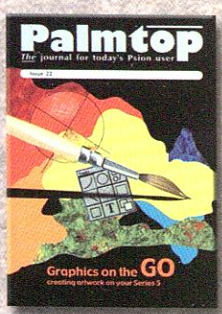

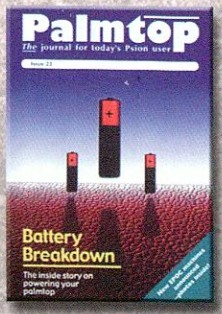

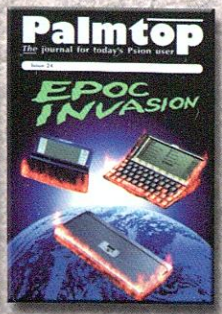

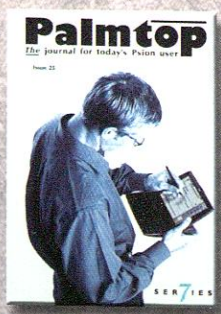

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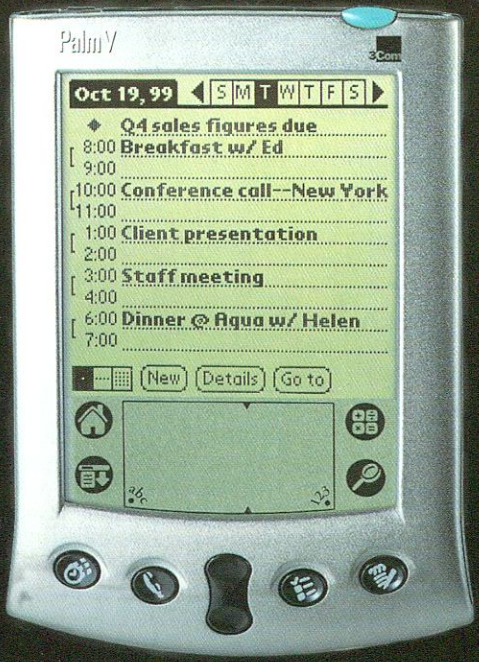

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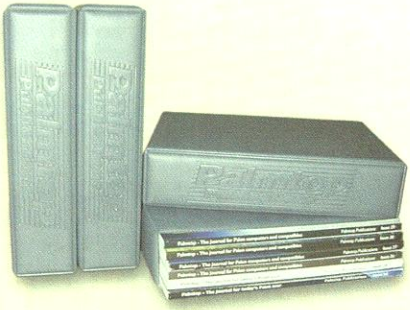

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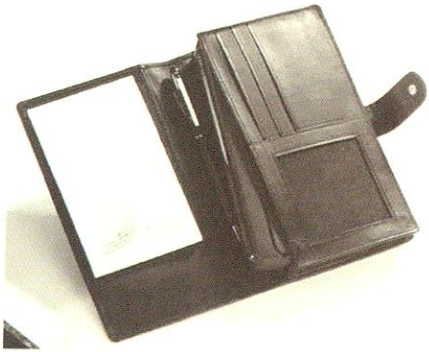

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